

CAMPUS *mundi*



Image by Jimmy Nelson. Before they pass away Project. For at least a thousand years, the Amazonian rainforest of Ecuador, the Oriente, has been home to the Huaorani (meaning 'human beings' or 'the people'). They consider themselves to be the bravest indigenous group in the Amazon. Until 1956, they had never had any contact with the outside world. Source: www.beforethey.com

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with you
in mind
—to inspire you
and make you
think

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NOT TOUCH

Reviewer for a Journal in Slovenia



JUNE 21, 2016. Congratulations to our recent Cum Laude honors student **Kenneth Okchoa** who in 2015, was appointed as a Reviewer for the **Journal of International Relations and Development** based in Slovenia. He would review scholarly papers before they are approved for publication. In addition, Mr. Okchoa has published, “**International Organizations and Conflict**



Resolution: A Theoretical Framework,” in the **American Open Political Science Journal**, Vol. 2, No. 1, January 2015. You can find it here: repub.com/American%20Open%20Political%20Science%20Journal/Current%20Issue.php
Kenneth Okchoa is completing a Doctorate program in International Relations at AIU with honors.

Graduated with Honors

JULY, 2016. These graduate students completed the majority of the requirements to obtain honors which included a 4.0 GPA, published works, recommendation from their advisor, patent a product, etc. **Congratulations to both of them!**



Elvira Mumy Arielle Celina

Master of Science
in Architecture
CUM LAUDE



Roshan Rathi

Doctor of Philosophy
in Strategy and Innovation
CUM LAUDE

MTC Global Annual Convention



JULY 12, 2016. The **6th MTC Global Annual Convention** will be held on the 16th and 17th September in Bangalore, India.

ASIC’s Chairman, **Maurice Dimmock**, is very pleased to be providing a keynote address to the



convention delegates.

The theme of this year’s convention will be **Disruptive Innovation in Education**, and will be looking at the role of traditional offline institutions in the 21st century, new forms of learning as an engine of economic growth, and entrepreneurship and start-ups.

The convention has been organized by **International School of Management Excellence & MTC Global** in partnership with **SANKALP 2016** and **ASIC**.

Mr. Dimmock will also be presenting several awards at this event and is proud to be receiving an award on behalf of **ASIC Global for International Accrediting Body of the Year**.

To find out more about this event please contact Prof. **Bholanath Dutta** at **MTC Global**:
president@mtcglobal.org

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News Archive: aiu.edu/aiu2016/DownloadCenter.html

Workshop in Brussels



Wednesday September 28th 2016.

The workshop’s topic is “**Delivering HIV and sexual and reproductive health services to female sex workers. Lessons learned from South Africa, Mozambique, Kenya and India.**” The key findings from the DIF-

JUNE 28, 2016. The **International Centre for Reproductive Health** has invited Dr. **Alex Lucas** to the **DIFFER** final workshop in Brussels, Belgium, on Tuesday September 27th and

FER project in each of the four countries will be presented and discussed.

Dr. **Alex Lucas** is completing a Post-Doctorate program in Health Sciences at AIU.



Graduates of the month

JULY 2016

Mohammad Gul Hamidi
 MASTER OF SCIENCE
CIVIL ENGINEERING
 AFGHANISTAN

Tatiana Miguel Pinto da Silva
 BACHELOR OF BUSINESS ADMINISTRATION
ACCOUNTING
 ANGOLA

Verri Magalí
 BACHELOR OF SCIENCE
PSYCHOLOGY
 ARGENTINA

Ana Luisa Quintana
 BACHELOR OF PSYCHOLOGY
HUMANITIES
 ARGENTINA

Paulo Clezio dos Santos
 DOCTOR OF PHILOSOPHY
THEOLOGY
 BRAZIL

César Abel Mayele
 DOCTOR OF BUSINESS ADMINISTRATION
PROJECT MANAGEMENT
 BURUNDI

Srey Mony
 DOCTOR OF PHILOSOPHY
PUBLIC HEALTH
 CAMBODIA

Elvira Mummy Arielle Celina
 MASTER OF SCIENCE
ARCHITECTURE
 CAMEROON

Guillermo S. Santibáñez González
 DOCTOR OF SCIENCE
PSYCHOLOGY
 CHILE

Manuel Antonio Morales Perez
 BACHELOR OF SCIENCE
CIVIL ENGINEERING
 CHILE

Eric Viana Buendia
 DOCTOR OF SCIENCE
COMPUTER SCIENCE
 COLOMBIA

Luis Enrique Rubiano Quitián
 DOCTOR OF SCIENCE
POLITICAL SCIENCE
 COLOMBIA

Edison Duque Valencia
 DOCTOR OF EDUCATION
EDUCATIONAL PSYCHOLOGY
 COLOMBIA

Carlos Alberto Piedrahita Gutierrez
 DOCTOR OF PHILOSOPHY
PUBLIC HEALTH MANAGEMENT
 COLOMBIA

Hector Rangel Pardo Aguilar
 BACHELOR OF SCIENCE
MECHANICAL ENGINEERING
 COLOMBIA

Leidy Dahiana Berroa Mercedes
 DOCTOR OF PHILOSOPHY
EDUCATIONAL SCIENCES
 DOMINICAN REPUBLIC

Maribel Moya Estevez
 BACHELOR OF PSYCHOLOGY
PSYCHOLOGY
 DOMINICAN REPUBLIC

Ana Gricelda García Castro
 MASTER OF HUMAN RESOURCES
HUMAN RESOURCES
 DOMINICAN REPUBLIC

Isaac Rachelle
 BACHELOR OF BUSINESS ADMINISTRATION
ACCOUNTING
 DOMINICAN REPUBLIC

Manuel Antonio de la Cruz Fernandez
 DOCTOR OF LEGAL STUDIES
LEGAL STUDIES
 DOMINICAN REPUBLIC

Raquel Viviana Peguero Eusebio
 BACHELOR OF BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT
 DOMINICAN REPUBLIC

Sandra Lopez Gomez
 BACHELOR OF BUSINESS ADMINISTRATION
INTERNATIONAL BUSINESS
 ECUADOR

Byron Leonardo Ortiz Pérez
 BACHELOR OF SCIENCE
ELECTRICAL ENGINEERING
 ECUADOR

José Wilfredo Agreda Coto
 BACHELOR OF SCIENCE
INDUSTRIAL ENGINEERING
 EL SALVADOR

Hilario Tortosa Segura
 BACHELOR OF SCIENCE
PUBLIC HEALTH
 EQUATORIAL GUINEA

Ameyaw Yeboah James
 DOCTOR OF BUSINESS ADMINISTRATION
BUSINESS MANAGEMENT
 GHANA

This month we have graduates from: Afghanistan · Angola · Argentina · Brazil · Burundi · Cambodia · Cameroon · Chile · Colombia · Dominican Republic · Ecuador · El Salvador · Equatorial Guinea

<p>Sylvester Donkoh DOCTOR OF PHILOSOPHY EDUCATIONAL SCIENCES GHANA</p> <p>Kyekyeku Oppong MASTER OF BUSINESS ADMINISTRATION PROJECT MANAGEMENT GHANA</p> <p>Maria Eugenia Sandoval Martinez DOCTOR OF EDUCATION HIGHER EDUCATION GUATEMALA</p> <p>Lauriano Figueroa Del Cid DOCTOR OF BUSINESS ADMINISTRATION BUSINESS ADMINISTRATION GUATEMALA</p> <p>Kabba Kamara BACHELOR OF SCIENCE INFORMATION TECHNOLOGY GUINEA</p> <p>Alba Lucia Loaiza Quinchia MASTER OF LEGAL STUDIES LEGAL STUDIES HOLLAND</p> <p>Patricia Ann Keal MASTER OF ARTS ENGLISH LITERATURE JAPAN</p> <p>Robert Hosea Osea Omuom DOCTOR OF SCIENCE PROJECT MANAGEMENT KENYA</p> <p>Alpha Amadou Bah DOCTOR OF SCIENCE PROJECT MANAGEMENT MADAGASCAR</p> <p>Jofirisi Jofirisi BACHELOR OF SCIENCE PUBLIC HEALTH MALAWI</p>	<p>Julio A. Campos Fernandez de los R. BACHELOR OF SCIENCE ARCHITECTURE MEXICO</p> <p>María del Pilar González Peñalver DOCTOR OF SCIENCE PSYCHOTHERAPY MEXICO</p> <p>María Hilda García Avendaño BACHELOR OF SCIENCE PSYCHOTHERAPY MEXICO</p> <p>Bento Caetano Maculuva BACHELOR OF ACCOUNTING BUSINESS MANAGEMENT MOZAMBIQUE</p> <p>Roshan Rathi DOCTOR OF PHILOSOPHY STRATEGY AND INNOVATION NEPAL</p> <p>Agbeboaye, Emmanuel DOCTOR OF PHILOSOPHY MANAGEMENT NIGERIA</p> <p>Anne Chinonyenim Taiwo DOCTOR OF PHILOSOPHY PUBLIC HEALTH NIGERIA</p> <p>Alkali Alhaji Umar DOCTOR OF SCIENCE PUBLIC POLICY ANALYSIS NIGERIA</p> <p>Ogbonna Lucas Chigoziem MASTER OF PHILOSOPHY PHILOSOPHY OF EDUCATION NIGERIA</p> <p>Etuk Basse Williams BACHELOR OF JOURNALISM COMMUNICATION STUDIES NIGERIA</p>	<p>Luis Enrique Jordán Teves Velazco BACHELOR OF SCIENCE CIVIL ENGINEERING PERU</p> <p>Frederico Francisco Gamarra Vallejo BACHELOR OF BUSINESS ADMINISTRATION BUSINESS ADMINISTRATION PERU</p> <p>Silvia del Pilar Iglesias León DOCTOR OF PHILOSOPHY PHILOSOPHY PERU</p> <p>Carlos Eugenio García Alcázar DOCTOR OF BUSINESS ADMINISTRATION BUSINESS ADMINISTRATION PERU</p> <p>Edgar Virgilio Bedoya Justo DOCTOR OF PHILOSOPHY AGRONOMIC ENGINEERING PERU</p> <p>Ana Edite de Andrade Teles Carreira MASTER OF BUSINESS ADMINISTRATION BUSINESS ADMINISTRATION PORTUGAL</p> <p>Julio G. Molina BACHELOR OF SCIENCE SYSTEMS ENGINEERING SPAIN</p> <p>Fernando Salvador Porco BACHELOR OF SCIENCE PHYSICAL THERAPY SPAIN</p> <p>Mwangati Germain-A.Whenda-B. N'goli DOCTOR OF PHILOSOPHY COMMUNICATIONS THAILAND</p> <p>Christopher Ebal DOCTOR OF SCIENCE PROJECT MANAGEMENT UGANDA</p>	<p>Dr. Nathan Karema DOCTOR OF SCIENCE HEALTH CARE MANAGEMENT UGANDA</p> <p>Vicent Mwesige BACHELOR OF ARTS CRIMINAL JUSTICE UGANDA</p> <p>John J.B. Silvia, III DOCTOR OF PHILOSOPHY ENGINEERING MANAGEMENT USA</p> <p>Jose Ernesto Cruz BACHELOR OF THEOLOGY THEOLOGY USA</p> <p>Roland Christopher Smith MASTER OF SCIENCE ELECTRICAL ENGINEERING USA</p> <p>Kehinde Bamidele Orimolade DOCTOR OF PHILOSOPHY HEALTH CARE ADMINISTRATION USA</p> <p>Godfred Agbevanu DOCTOR OF PHILOSOPHY BUSINESS ADMINISTRATION USA</p>	<p>Mfula Mwansa Linus MASTER OF SCIENCE REGIONAL DEVELOPMENT ZAMBIA</p> <p>Dr. Kul Bhushan Sharma DOCTOR OF SCIENCE RENEWABLE ENERGY ZAMBIA</p> <p>Geoffrey Collins Mwambu BACHELOR OF SCIENCE ELECTRICAL ENGINEERING ZAMBIA</p> <p>James Chipulu MASTER OF SCIENCE NETWORK ADMINISTRATION AND SECURITY ZAMBIA</p> <p>Cynthia Mery-Le-Bone Z. Chasokela DOCTOR OF EDUCATION EDUCATION ZIMBABWE</p> <p>Darling Ndlovu BACHELOR OF BUSINESS ADMINISTRATION BUSINESS MANAGEMENT ZIMBABWE</p> <p>Lloyd Pararai Fende DOCTOR OF BUSINESS ADMINISTRATION BUSINESS LEADERSHIP AND MANAGEMENT ZIMBABWE</p>
				
<p style="text-align: center;">FIND MORE GRADUATES</p> <p>Gallery: aiu.edu/Graduation/grids/currentgallery.html Interviews: www.aiu.edu/Graduation/grids/interviews.html</p>				

TESTIMONIALS



Naheed Hussein
Master of Business Administration
 May 20, 2016

“I joined the MBA programme at **Atlantic International University** in 2013.

The University provided me an opportunity to structure my learning to my work. The added advantage of learning in **AIU** is pacing the study in accordance to your time to allow balance approach for work, personal commitment and studies. In this way, you are also able to manage the level of stress and pressure from emerging priorities.

The admission process is very inclusive with the help of admission counsellor who would provide all the relevant documents and information required. It is a benefit that as a student we are given the opportunity to develop our

own curriculum which can be easily targeted to the type of work we do. The interacting phase under this learning period is good supported by the Tutor. **AIU** recognises the work we do and wherever possible, those work documents can be assessed to recognise student’s contribution.

AIU also provides opportunity to agree on terms of fees payment which reduces burden from students. It makes it much easier and hassle free to settle the tuition fee with a given period of time. **AIU** provides several links and documents to its library and publication which are available for research work. As a student, I found **AIU**’s learning approach more useful especially when linking to my work. It provided a balance outcome and more realistic objective of learning. As a student, I would not hesitate to recommend **AIU** to any of my colleagues.

Bernard Laryea
Bachelor of Science in Public Health
 June 14, 2016



“**M**y education at **AIU** began in 2012 as a distance student. Upon enrollment, I was provided with an admission counsellor, a personal tutor and an advisor. These three persons have really been consistent in supporting me in my studies and other areas of my education which needed assistance. My personal tutor was always quick to provide feedback of all assignments that were given to me. He criticized me constructively when necessary and never failed to congratulate me when I performed well in any assignment. This encouraged me to perform better in my academics. Progress reports were also sent to me using all available means. I was provided with students ID number which gave me access to my student section.

My academic counselor and advisor were also available to give all the necessary guidance

in any area of my studies. Concerns that were emailed to my advisor were promptly addressed without delay.

Even though I was a non-resident, I had opportunity to interact with other students and alumni around the world online and this gave me a lot of exposure and a sense of belonging to the institution.

Generally, I have enjoyed studying at **AIU** and will not hesitate to introduce it to anybody seeking to attain academic advancement.



William N. Sendihe
Doctor of Education
 June 24, 2016

“**I** hereby wish to wholeheartedly give praise and glory to the Almighty God who has mercifully enabled me to

come to successful completion of my PhD studies at **Atlantic International University (AIU)**. It is through His Mercy that I have been able to come to the end of such a long and costly academic journey.

I am very grateful for the unique and constructive experience I have had with **AIU**. It is a good opportunity for me to thank all **AIU** Staff who were always ready and available to support me and encourage my academic progress. My studies have been very tough and intensive, but thanks to the continuous encouragements and facilitation from my respective Tutors and Advisors, I have been able to come to successful completion.

Through this unique online program, I have learned to work intensively; under self-discipline, and with regular advice from my Tutors and Advisors, and this has turned my long-term dream into a reality: the dream of getting the Doctor’s Title.

I will remain obliged to **AIU** in all my academic and professional activities.

MORE TESTIMONIALS FROM AIU STUDENTS

www.aiu.edu/Testimonials.aspx

The Monroe doctrine: corollaries for Latin America

By Luis Narváez Ricaurte | PhD in Political Science | Part 2/2

This exercise of the **Monroe Doctrine** through the **Roosevelt Corollary**, which in terms of time spanned from the late nineteenth century to the end of the Second World War (1945), is underpinned with the **Truman Doctrine**, which unfolds through the corollary of contention (ARACIL, OLIVER, & SEGURA, 1998, P.42); corollary³ which it

was in force throughout the period of the Cold War, and even spread to the attacks on the Twin Towers at the World Trade Center in New York in September 2001.

The scenario for this date was paradigmatic. The fall of the Berlin Wall had served as a milestone for a new world order arises: single-pole; and power of a nation to

hegemonic consolidated: we were in front of the consolidation of the 'American Pax'.

In this context court – making one epistemological breaks “terrorism” as a new scenario that requires the US Head of State and Government, by then **G. W. Bush**, to recompose the axes of foreign policy and security, through a broad interpretation– in

function of the new reality globally **Monroe** and **Truman** doctrine, asking what I have called corollary **Bush**, same as summarized in the US the right to intervene awarded by the force preemptively anywhere in the world where deemed or perceived national security is affected.

This new conceptual approach or geopolitical corollary **Bush**, returns the value to the action of the external front and security (GÜNTER BRAUCH, 2009, P.283), and in that exercise, surround way, involves all existing security structure and shipped to the international community, under a *sine qua non* for relations with the United States. The speech on Capitol Hill after ten days of the attack sat position on this phenomenon in Manichean terms, and immediate compliance and tax enforcement. (BUSH, 2001)

This new system of international relations had several effects, including the consolidation of the hegemonic structure of the US through the pre-eminence of single-pole (NARVAEZ RICAURTE, 2016, SENT

TO PUBLISH); survived scenario until 2014 when the unipolar scheme was questioned, formally, China and Russia through the Joint Declaration signed between the two countries on the International Order in 21st Century (MAY 2014); thus making visible a hidden reality that brewing came and went from being a subject of academic analysis to be approached from the fields of political decision. (WILCHES, 2014)

The **Bush** corollary, designed in the most orthodox terms of realpolitik, is forced to adapt following the meeting of these regional and global powers China and Russia; rehabilitation that comes from the hand of the current administration White House (**Obamas** corollary), which articulates a repeat of the good neighbor policy, by introducing certain changes in US foreign policy and redefine the actions and positions on the external front, but not completely keeping some distance from the guidelines were, once defined by the ‘hawks’⁴ from the White House, the State



³ The containment policy was outlined by **George F. Kennan**, the document known as the Long Telegram, published in the journal *Foreign Affairs* (1947) under the title of X Article, which argued that the primary objective of the United States should be to prevent the spread of communism to non-communist nations; ie “contain” communism within its borders. The corollary of contention was the domino theory, and this corollary became the focus of national security policy of the United States, collected in the speech deliver by President **Harry Truman** to Congress on March 12th, 1947.



Image: america.aljazeera.com



Luis Narváez Ricaurte is a graduate student from AIU with PhD in Political Science. He has also got a

Master in International Relations, and a Doctorate in Jurisprudence. He is a Lawyer, with a Degree in Public and Social Sciences. He's been a Diplomat for Ecuador since November 1997.

Department and the Pentagon.

On this analysis it is illustrative in that respect by the Secretary-General of FLACSO, Dr. **Adrian Bonilla**, which allows us to understand the mentioned corollary, noting that for Americans while in Latin America a dramatic crisis that directly challenged him on their interests are not present vital, his presence will continue to be relatively indifferent (*BONILLA, SF*) –and I would narrow: it is this

indifference, where we notice the permissibility and leeway currently gives us the US–.

As can be seen, this doctrine and its corollaries are deeply linked to the theory of Manifest Destiny –understanding this as the intangible value that legitimizes all shares–, bringing the exercise of implementing their interests have effects that can be noticed in the consolidation space influence and interference; determining issues of international agenda; prioritization of security as an ideal; the continuity of the current system; consolidating its hegemony; including third and fourth level.

The approach with a view to understanding the processes, ordering, systematizing and insertion of the USA on the world stage, can't and should be seen from the Manichean plane in search for an explanation of our situation –past and currently, but as a tool for formulate coherent policies to articulate the objectives in this chess game that is international relations.

In this logic, the hegemonic consolidation which is implicit in every American action – foreign policy has undergone significant changes since the mechanics of joint. Today we can see that this process is based on knowledge: science

and technology, on par with the exercise of force, strengthens its presence under a subtle –in some cases– and others –in obvious social Darwinism.

This implies the need to develop proactively –since the fields of science and technology create a space for greater political participation and freedom of action– that considering the existing board,

can be introduced, in some cases, improve maneuverability on the stage; and in others, with a view to changing the logic of the game, but under the pragmatic and realistic vision of the game is chess; so, go with football shoes, does not guarantee us better chess players, chess players nor the other, leaving the board to enter a court. *THE END*

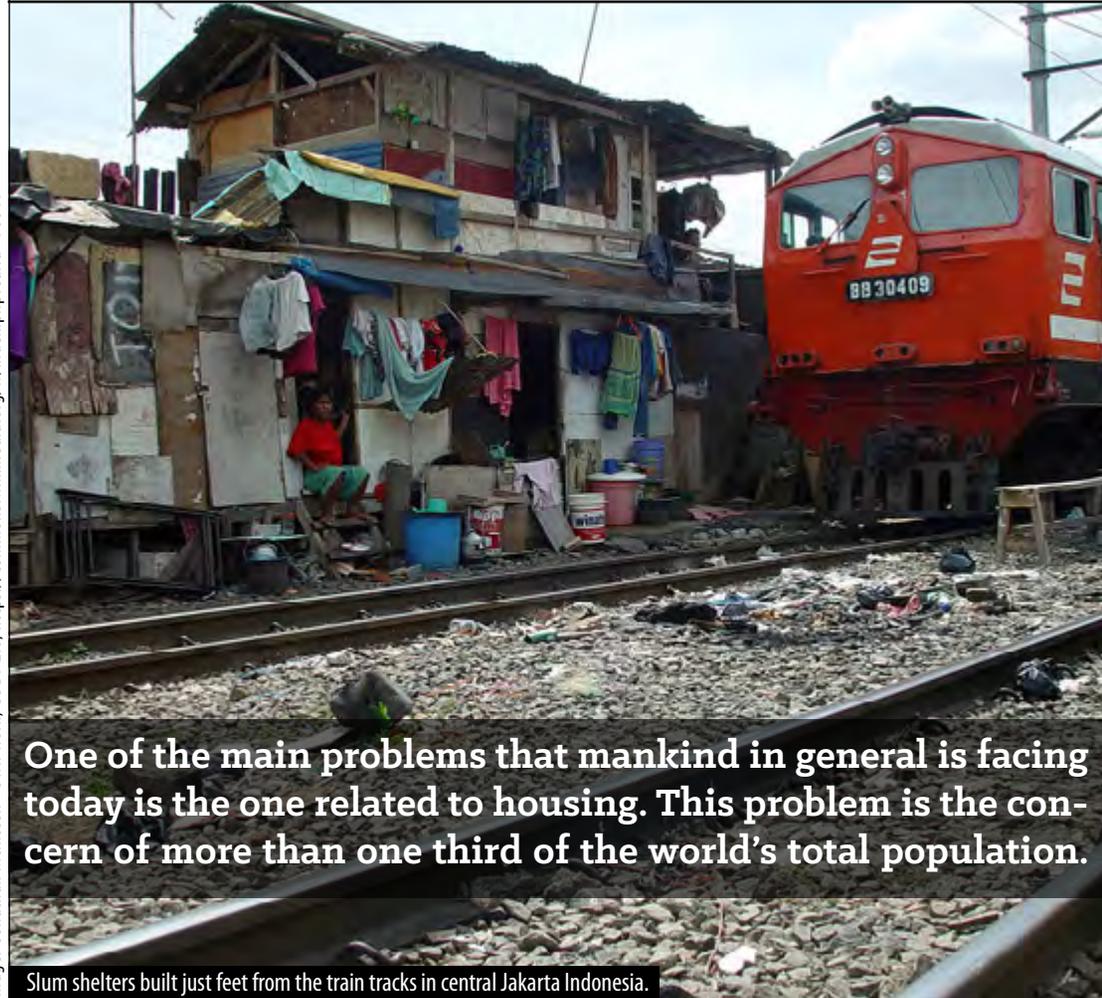
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Publications by Students: aiu.edu/StudentPublication.html

⁴ Nickname that were given to a group of people, trusted by **Bush**, responsible for the management of important topics, such as Iraq, such as Defense Secretary **Donald Rumsfeld**; Secretary of State **Condoleezza Rice**; Assistant Secretary of Defense **Paul Wolfowitz**; Chief of Staff of Vice President of the United States, **Lewis Libby**; among others.

When Architecture meets Isomorphism

Elvira Mumy Arielle Celina | Master of Science in Architecture | Part 1/3



One of the main problems that mankind in general is facing today is the one related to housing. This problem is the concern of more than one third of the world's total population.

Slum shelters built just feet from the train tracks in central Jakarta Indonesia.

image: Jonathan McIntosh - Own work, CC BY 2.0, <https://commons.wikimedia.org/w/index.php?curid=70041>

Many people around the world are suffering from the climate changes due to the non respect of the whole ecological system. The need of taking into account the characteristics of environment when planning and acting in all the daily-life' situations have become more and more important. Additionally, nowadays the protection of the environment is also one important need of humankind. In this perspective, many people are aware of the necessity to reduce the gap between human activities and the whole ecological system when even building or planning.

Concerning the issue of harmony with the environment, more and more people around the world are interested in the problem of building or constructing houses in connection with the environment. Building techniques and of building construction materials suitable to the environment are used more often in many countries.

Given the increasing human need of reducing the gap between human activities and the environment and given the increasing human need of improving the way of resolving the housing problem in the world, how can we introduce the principle of isomorphism so as to solve or to prevent such architectural

problems? How can we define the principle of isomorphism in architecture? What are the main aspects of the principle of isomorphism in architecture? Referring to the problem situation to be solved, from which aspects of the principle of isomorphism in architecture, appropriate explanation and changes could be stated and realized in order to improve the situation? These are the questions examined in this piece of research.

A four part analysis

This work, whose main objective is to state the understanding and the extension of the principle of isomorphism in architecture from the analysis of the concept of isomorphism in some sciences, is made up of four parts. After the **introduction**, the **theoretical framework**, then the **methodological aspects**, later on, the **results** and finally the **conclusion** are presented.

Theoretical framework The concept of isomorphism in some sciences

The concept of isomorphism
The definition of the notion of isomorphism has changed. In the past, the extension of the general notion of isomorphism was made up of many concepts such as: similarity (similitude) which implies making precise

the accord between different branches of a field of study or a discipline such as mathematics. Additionally, the link between isomorphism and structure was one of the characteristics of an isomorphism. It was admitted from research done in this domain that every structure carried within itself, a notion of isomorphism.

Nowadays, and according to **Timmermans** (2012, p. 42),

A homomorphism $\Phi: A_1 \rightarrow A_2$ is a mapping from A_1 to A_2 that preserves the structure relations in A_1 (...); if a homomorphism Φ is one-to-one, onto and if its inverse mapping $\Phi^{-1}: A_2 \rightarrow A_1$ is also a homomorphism, then Φ is called an isomorphism. A homomorphism from A_1 to itself is called an endomorphism. If this endomorphism is also an isomorphism, it is called an automorphism.

In mathematics, the word derives from the Greek 'iso' which means «equal» and 'morphosis' meaning «to form» or «to shape». Isomorphism, in modern algebra according to **William Hosch** (2016), is a one-to-one correspondence (mapping) between 2 sets that preserve binary relationships between elements of the sets. Given that A & B are sets with elements a_n and b_m , respectively. \oplus and \otimes indicate their respective binary operations,

which operate on any 2 elements from a set and may be different.

If there exists a mapping f such that $f(a_j \oplus a_k) = f(a_j) \otimes f(a_k)$ and its inverse mapping f^{-1} such that

$$f^{-1}(b_r \otimes b_s) = f^{-1}(b_r) \oplus f^{-1}(b_s)$$

Then the sets are said to be isomorphic and f and its inverse are isomorphisms.

- One-to-one correspondence between the elements of 2 or more sets such as those of Arabic and Roman numerals and between the sum or products of the elements of the one sets of these sets and those of the equivalent elements of the other set or sets.

- A one-to-one relation onto the map between the sets which preserves the relations existing between elements in its domain¹.

- A one-to-one correspondence between 2 mathematical systems sets, etc that preserves the basic operations, as the correspondence between binary numbers and decimal numbers, each a set of real numbers².

- A one-to-one correspondence between the elements of one set corresponds to the result of the analogous operation on elements of the other set.

According to **Joyce** (2015)³,

2 vectors spaces V and W over the same field F are said to be isomorphic if there is a bijection $T: V \rightarrow W$ which preserves addition and scalar multiplication, that is, for all vectors u and v in V , and all scalars $c \in F$, $T(\mathbf{u} + \mathbf{v}) = T(\mathbf{u}) + T(\mathbf{v})$ and $T(c\mathbf{v}) = cT(\mathbf{v})$

The correspondence T is then called an isomorphism of vector spaces.

In Biology, the concept of isomorphism is related to similarity of form or structure between organism with independent ancestries; similarity in form, as in organisms of different ancestry; similarity of form, as in different generations of the same life cycle; similarity in the form or structure of organisms that belong to a different species or genus⁴.

In Chemistry⁵ Isomorphism is the existence of two or more substances that have the same crystal structure, so that they form solid solutions; a close similarity in the crystal-line structure of two or more substances of similar chemical composition; the similarity in the crystal structures of similar chemical compounds; the existence of two or more different substances in the same crystal form and structure; an identity or close similarity in the crystalline form of substances usually containing different

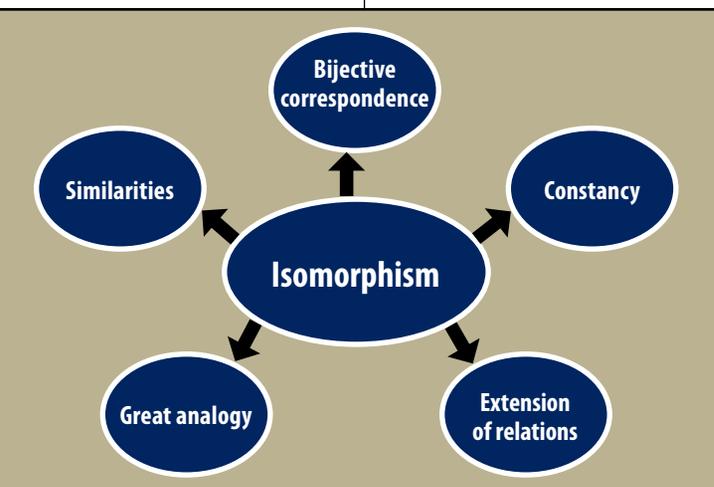
elements but having similar composition.

Then, an isomorphism in other words implies bijective correspondence between the elements of both groups and between the products of these elements. Apart from mathematics, the concept of isomorphism is studied and used in other scientific disciplines (chemistry, biology...). In these scientific fields, the word isomorphic is not conceived and cannot be taken in rigorous sense, but it frequently indicates only a great analogy, similarities, correspondence...

Extension of relations in an isomorphism

As far as the relations in isomorphism are concerned, if taking into consideration the following conception of strict extension as stated by **Jayaprasad & Johnson** (2012), a "relation set R^* is said to be the strict extension of R , if R^* contains all relations in R and at least one relation other than those in R which is not derivable from the relations in R . we denote $R \subset R^*$ when R^* is a strict extension of R ". The figure below represented is a set of notions behind the concept of isomorphism in sciences. *TO BE CONTINUED*

Figure 1: Notions related to the concept of isomorphism in sciences



¹ Random House Kernerman Webster's College Dictionary (2016). Retrieved from: <http://www.thefreedictionary.com/isomorphism> ² Merriam Webster (2014). Webster dictionary. Retrieved from: <http://www.merriam-webster.com/dictionary/Isomorphism> ³ Joyce, D. (2015) on the isomorphisms of vector spaces. ⁴ American Heritage Dictionary of the English Language, fifth Edition (2016). Houghton Mifflin Harcourt Publishing Company. Retrieved from: <http://www.thefreedictionary.com/isomorphism> ⁵ Collins English Dictionary. HarperCollins Publishers (2014). Retrieved from: <http://www.thefreedictionary.com/isomorphism>

HUMAN RIGHTS

Inalienable right to life, liberty and security



Image: blog.rustomjee.com

By Dr. Rosa Hilda Lora M.
Advisor at AIU | rosa@aiu.edu



The Universal Declaration of Human Rights of the United Nations Organization (UN) in its Article 3rd says:
 “Everyone has the inalienable right to life, liberty and security for oneself”.

Reading the article it seems to be short but if you analyze the topic it shows the greatness and value of human beings. We are living in a society with extraordinary growth of science and technology, in a society of large commercial alliances, in a society where if something happens in the farthest place on our Planet, we have the information immediately.

This society suggests that it is a society where all human

beings live with all their needs fulfilled and where every human being has every opportunity to do their life as they wish, so that they live satisfied with their accomplishments, therefore we can say they are happy.

We think it is difficult to believe that with so much technology, so much communication, so much publicity and so many business relationships; every day there are more violations to the 3rd Article of the Universal Declaration of Human Rights.

What happens with life? What is life worth nowadays?

It seems that life is tied to economics for the way that organizations are working; it doesn't matter what kind of organizations they are. If there is money involved the agreement will be in favor of the most powerful one.

We see large commercial treaties, great alliances among the richest countries and how the relationships are with nations that have less financial resources than the other ones have. Moreover they mind about countries that have very important natural resources.

History also shows us what life has meant. Think about the great human movements like the French Revolution, the Industrial Revolution and the American Revolution.

We are in a stage of social

and economical development, entitled "Globalization".

This movement shows the social and economic scale, the centralization of wealth power and weaknesses of whom don't have the same social organization.

We are living a crisis of organizational production, education, communication and opportunities for everybody. We are witnesses of undeclared wars in the Middle East; different forms of organization in the West, both economical and social.

We are also witnesses of a great social discontent in the West with what must be the democratic form of social organization. There are a lot of extremist movements and human beings are seeking a space to make a living and we wonder where we could live in peace, where we could study, where we could work, where we could have a small space to live and how much we would have to pay for medical care.

In this historical moment life seems to us that we would need to look for Diogenes' lantern to find that special place.

As parents, as teachers, we have a great responsibility: we must educate the youngest ones to find the way to be human beings who have the opportunities they deserve. We must educate them respecting



Image: www.northcountrypublicradio.org

the space of others no matter what country it is, what color of skin they have, what religion they believe in and what gender they are. We also need to teach them in the knowledge that the Earth is our home and if we don't take care of it, the life that we have won't be the same in the future.

Liberty and security are values that are part of life; without liberty we can't accomplish our growth as human beings. Life of human beings must be linked to liberty and security. As human beings we can choose the development of our aptitudes we were born and with the skills we are acquiring.

We need to look inwards, who we are, and outwards, what does society offer. We have to find the space we

need to be: the man or woman we want to be. It is not easy because we are always manipulated by the media which makes us live in a society where human beings are just brain washed to buy everything they want.

We live in a consumer society; we don't think if we really need everything we buy, if we actually realized that everything we buy is not need we might not have to work so hard to pay for it.

If we didn't think people were worth by what they have

we would have time to think about who we are as human beings and where we want to go, where we want to live satisfactorily.

To study is not to be able to work; to study is to realize what life is, it is to know: who we are and what we should and can do with the most precious gift we are given, the opportunity to be.

What will you do with your life? Where do you want to go? Have you thought about your opportunities?

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LEARNING

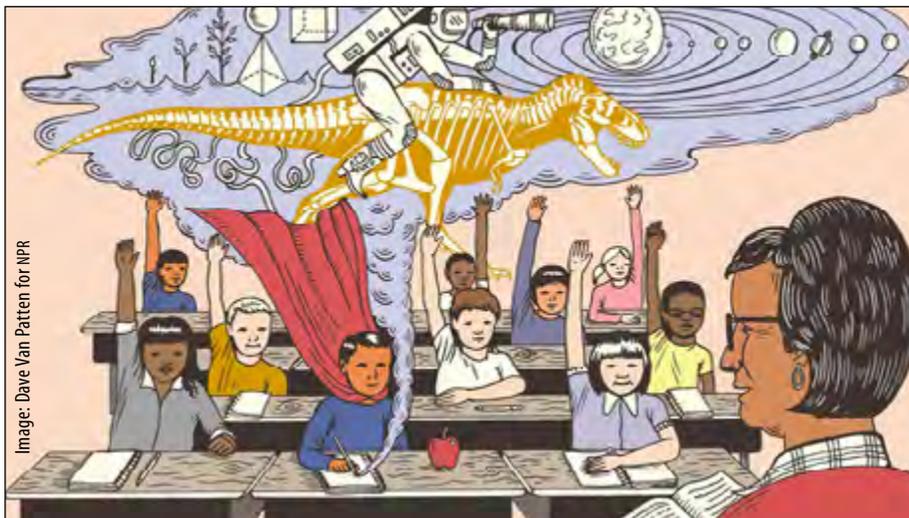


Image: Dave Van Patten for NPR

Helping quiet kids

Being present and connecting doesn't have to take place through lots of speech.

When Lily Shum was little, she dreaded speaking up in class. It wasn't because she didn't have anything interesting to say, or because she wasn't paying attention or didn't know the answer. She was just quiet. That's why she joined more than 60 educators in New York City recently at the **Quiet Summer Institute**. The professional development workshop was based on Susan Cain's best-seller **Quiet: The Power of Introverts in a World That Can't Stop Talking**.

The two-day course started with classroom engagement. Instead of talking, why not try drawing, writing or working in pairs? Or have students walk around the room, writing ideas on tacked-up pieces of paper. They can

respond to each other's ideas —like a sort of silent dialogue.

Corbin offered up this tip for handling students who dominate the discussion: W-A-I-T. Sure, it means wait. But, Corbin explains, it also stands for: "Why Am I Talking?"

It's not just about paying attention to quiet kids. Teachers need to think about why they're quiet. Some kids might be quiet because they have been shut down.

If teachers don't start to look past the students with their hands up, they are going to miss out on a lot of brilliant ideas. *Read full text:* www.npr.org/sections/ed/2016/07/06/483272807/how-teachers-can-help-quiet-kids-tap-their-superpowers?utm_source=facebook.com&utm_medium=social&utm_campaign=npr&utm_term=nprnews&utm_content=20160706

Sober is the new drunk

Why millennials are ditching bar crawls for juice crawls.

On a Saturday afternoon in Manhattan, Rachel Floyd and her boyfriend Paul Isham take a shot of a dark yellow liquid called *Mother F*%in' Fireball*.

"It kind of makes my leg hair follicles feel like they're standing out," says Isham, a 33-year-old audio visual technician. Floyd says "Oh man. I feel that right up here," bringing her left hand over her head. The 26-year-old clinical psychology grad student is on her eighth shot of the day, but she could still pass a breathalyzer test. The *Mother F*%in' Fireball* is not the cinnamon whiskey teenagers steal from their parents around Christmas —it's an orange-based drink with a spicy kick from a mix of cayenne, ginger and oregano oil.

Floyd is on a juice crawl, a monthly event in which participants hop to

three different shops and sample more than 19 flavors with names such as "Purple Rain" and "Dr Feelgood" from 2oz plastic cups. It's just one of many booze-free activities that have popped up in major US cities to serve a growing number of young people who are ditching the hooch.

This group is not full of recovering addicts, but rather people who value mindfulness, spandex and green juice. For those 35 and under, cutting back on booze no longer means social suicide.

In addition, there are now sober day raves, alcohol-free bars, boozeless dinner and dance parties, and a sober social network that organizes group outings and launched a dating app so popular it has temporarily shut down.

Read full article: [www.theguardian.com/society/2016/apr/21/](http://www.theguardian.com/society/2016/apr/21/millennials-booze-free-events-juice-crawl-new-york)

[millennials-booze-free-events-juice-crawl-new-york](http://www.theguardian.com/society/2016/apr/21/millennials-booze-free-events-juice-crawl-new-york)



Image: Juice Crawl

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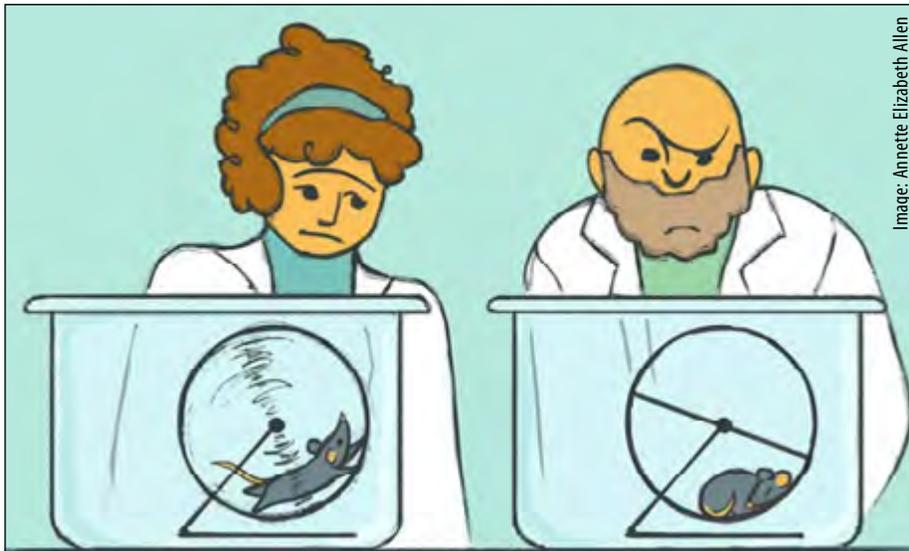


Image: Annette Elizabeth Allen

The smallest engine ever

Nanomachines that could drive a medical revolution.

Scientists from the University of Mainz in Germany recently built the smallest engine ever created from just a single atom. Like any other engine it converts heat energy into movement –but it does so on a smaller scale than ever seen before.

Nanotechnology deals with objects equivalent to one billionth of a metre in size. Here are four tiny machines that could have a big impact.

Graphene engine for nanorobots.

Researchers from Singapore have recently demonstrated a nano-sized engine made from a highly elastic piece of graphene.

Frictionless nano-rotor. Researchers from Germany created a molecular rotor by placing moving molecules inside a tiny hexagonal hole known as a nanopore in a thin piece of silver.

Controllable nano-rockets. Several groups of researchers have recently constructed a high-speed, remote-controlled nanoscale version of a rocket by combining nanoparticles with biological molecules.

Magnetic nano-vehicles for carrying drugs. Other research group is working on a simpler way to carry drugs through the body that is already being explored with magnetic nanoparticles. Drugs are injected into a magnetic shell structure that can expand in the presence of heat or light. Once inserted into the body, they can be guided to the target area using magnets and then activated to expand and release their drug.

Read full text by Tapas Zen, Reader in Nanomaterials Chemistry, University of Central Lancashire: 3tags.org/article/meet-the-nanomachines-that-could-drive-a-medical-revolution

7 big problems facing science

In the past several years, many scientists have become afflicted with a serious case of doubt –doubt in the very institution of science. So, authors **Julia Belluz**, **Brad Plumer**, and **Brian Resnick** sent scientists a survey asking this simple question: If you could change one thing about how science works today, what would it be and why?

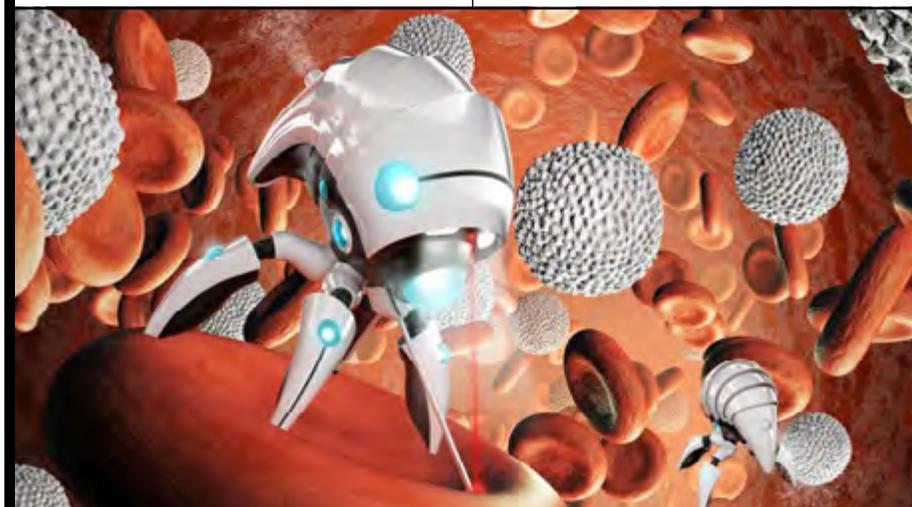
They heard back from 270 scientists all over the world, including graduate students, senior professors, laboratory heads, and Fields Medalists. They told the authors that, in a variety of ways, their careers are being hijacked by perverse incentives. The result is bad science. Before presenting the **Seven biggest problems facing science**, there are some caveats to keep in mind: The survey was not a scientific poll.

And the respondents disproportionately hailed from the biomedical and social sciences and English-speaking communities.

1. Academia has a huge money problem.
2. Too many studies are poorly designed. Blame bad incentives.
3. Replicating results is crucial. But scientists rarely do it.
4. Peer review is broken.
5. Too much science is locked behind paywalls.
6. Science is poorly communicated to the public.
7. Life as a young academic is incredibly stressful.

If you're interested in this area, we really encourage you to read full text:

www.vox.com/2016/7/14/12016710/science-challenges-research-funding-peer-review-process

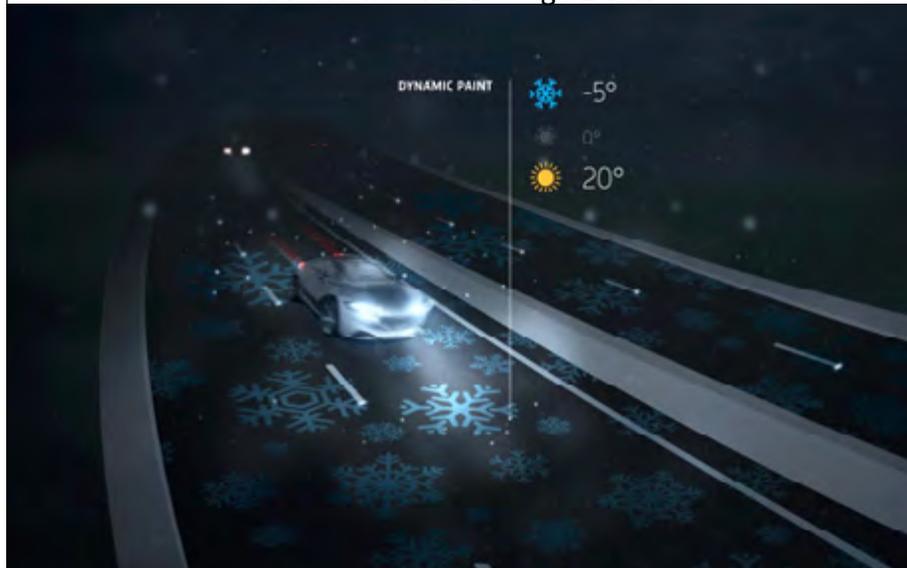


AIU makes a huge contribution to the world by giving new scientifics the space for original investigations and research. Visit MyAIU Evolution

Smart Highway



Visit: www.studio Roosegaarde.net



Daan Roosegaarde and director of Heijmans

Smart Highway are interactive and sustainable roads of today. Designer Daan Roosegaarde and Heijmans Infrastructure develop new designs and technologies for this 'Route 66 of the future'.

New designs include the 'Glowing Lines', 'Dynamic Paint' and 'Electric Priority Lane'. The goal is to make roads that are more sustainable and interactive by using light, energy and road signs that automatically adapt to

the traffic environment and people.

Smart Highway has been awarded with 'Best Future Concept' by the Dutch Design Awards and is winner of the INDEX Award 2013. The first meters **Smart Highway** have been installed in the Netherlands, and will be further launched international.

Source: www.studio Roosegaarde.net/uploads/files/2014/10/18/199/Factsheet%20Smart%20Highway%20-%20Daan%20Roosegaarde.pdf

Watch video: www.studio Roosegaarde.net/project/smart-highway/

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Is autism different in girls?



Autism has long been more commonly seen in men. You'll often see a ratio thrown around: there are four times as many men with autism than women. And researchers have been looking for an explanation —like a difference in genetic make-up— for this disparity. But new research suggests that perhaps the explanation is simpler than that. Maybe doctors are simply missing the signs of autism in women.

Jennifer McIlwee Myers, who has Asperger's and is the author of "How to Teach Life Skills to Kids with Autism or Asperger's," says boys on the spectrum are more likely to

respond to their difficulties with anger and aggression, while girls are more likely to "deal with issues quietly," cultivating extreme "niceness" and imitating other girls' behavior. Boys who have the vision problems that sometimes go with autism spectrum disorders may hit other boys, she explains, while girls might instead cling to other girls. And a boy who attacks other kids is going to get intervention a lot faster than a girl who cries quietly every day.

Jennifer O'Toole, an author and founder of the **Asperkids Web** site and company, was not diagnosed until after her husband, daughter and

sons were found to be on the spectrum. On the outside, she looked pretty much the opposite of autistic. At Brown University, she was a cheerleader and sorority girl whose boyfriend was the president of his fraternity.

But inside, it was very different. Social life did not come at all naturally to her. She used her formidable intelligence to become an excellent mimic and actress, and the effort this took often exhausted her. From the time she started reading at three and throughout her childhood in gifted programs, O'Toole studied people the way others might study math. And then, she copied them —learning what most folks absorb naturally on the playground only through voracious novel reading and the aftermath of embarrassing gaffes.

O'Toole's story reflects the power of an individual to compensate for a developmental disability and hints at another reason females with autism can be easy to miss.

Read full articles
 By **Rose Eveleth**: www.smithsonianmag.com/smart-news/autism-is-likely-under-diagnosed-in-women-due-to-gender-bias-28003167/#sxExIqI5hYMUJPC.99
 By **Maia Szalavitz**: www.scientificamerican.com/article/autism-it-s-different-in-girls/



Image: www.piccutalaw.com

Emotional distress

Seven surprising signs that you're suffering from it.

The following list must be interpreted within a person's own world; these symptoms often develop insidiously and we forget what life was like before they were present and start to accept them as 'normal'. But, this can be a useful check list to chart the state of your emotional health and decide whether outside intervention is needed.

1. Feeling overly emotional. If we cry at something and think that wouldn't normally have this effect upon us, it may be an early warning sign of tiredness and overdoing it or that there is an illness presenting.
2. Overworking. This represents just one way of avoiding dealing with something important that then leads to inner stress.

3. Snapping at the slightest thing. When we become stressed or emotionally unwell our resilience usually drops.
4. Mood Swings. Thinking may become catastrophic in nature and lead to feelings of entrapment.

5. Loss of purpose. When we become emotionally unwell, pleasure in everything can diminish.

6. Feeling unappreciated. It may well lead to frustration, resentment or low self-esteem and loss of confidence.

7. Becoming over-controlling. If we lose our feelings of security we often try to reinstate them by controlling our external environment, and others.

Read full article: www.telegraph.co.uk/men/thinking-man/seven-surprising-signs-that-youre-suffering-from-emotional-distress/

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Electricity from water pipes

Portland goes green with innovative system.

Portland has replaced a section of its existing water supply network with Lucid Energy pipes containing four forty-two inch turbines. As water flows through the pipes, the turbines spin and power attached generators, which then feed energy back into the city's electrical grid. According to **Lucid Energy**, this will be the "first project in the US to secure a 20-year Power Purchase Agreement (PPA) for renewable energy produced by in-pipe hydropower in a municipal water pipeline."

Lucid Energy's system isn't affected by the sort of external conditions (the weather) upon which other renewable energy sources –like solar and wind power– are reliant. Nor does the

technology, completely ensconced within a pipe, have adverse effects on a surrounding environmental ecosystem, as an exposed hydroelectric dam might.

Fast Company points out that, in order to be cost and energy effective, Portland's new power generators must be installed in pipes where water flows downhill, without having to be pumped, as the energy necessary to pump the water would negate the subsequent energy gleaned. The system can monitor both the overall condition of a city's water supply network as well as assess the drinking quality of the water flowing through it.

Read full note: www.good.is/articles/portland-pipeline-water-turbine-power

The coolest solar grill

It stores latent heat for 25-hour cook time at 450°F

This solar-powered grill uses latent heat storage to both extend cooking times, create hotter temperatures, and reduce the problem of intermittent sun. Based on technology developed by MIT professor **David Wilson**, this grill could both alleviate the well-known environmental impact of traditional charcoal grilling, and also offer a cleaner, greener and more socially sustainable cooking option in the developing world.

A group of MIT students are working with the technology to develop a prototype solar grill. **Derek Ham**, **Eric Uva**, and **Theodora Vardouli** are conducting a study through their multi-disciplinary

course "iTeams," short for "Innovation Teams", to determine the interest in such a concept and then hopefully launch a business to manufacture and distribute these grills.

This study is very timely because although the students are creating a new grill for American backyards, the business plan is designed to allow the grills to be deployed in developing countries as an alternative source for cooking. **Wilson** originally came up for the idea during his time spent in Nigeria. While there he noticed a large set of problems linked to practice of cooking with firewood.

Source: www.treehugger.com inhabitat.com



Eco Tip: Wherever possible, replace disposable products with reusable ones (vg razor, batteries...). **Change your life, get sustainable, visit MyAIU Knowledge**



Image: Susana Secretariat/Flickr

Family planning

Something that simple is transforming lives in Kenya.

“Until I met the community health worker, I did not know that one can have sex and not get pregnant,” said **Wanjiru**, a participant of the **Tupange Family Planning** program. **Wanjiru** is not different from many women living in the slums of Nairobi.

Wanjiru delivered her first born and within one year, she had had her second child. It was not long before she discovered she was pregnant again with her third child. She could not adequately feed her two children as it was, and here was another pregnancy. To add to her sorrows, her partner **Kamau** disappeared.

Penina told **Wanjiru** that it was possible to have sex and not have a pregnancy and that she could space out her pregnancies by using a family planning

device like an intrauterine device (IUD). **Wanjiru** had heard they could have side effects, including cancer. However, after two months of follow-up visits by **Penina**, **Wanjiru** was convinced and went to the Kangemi health facility to start using a family planning method of her choice.

Today, more than 220 million women in developing countries have an unmet need for family planning —meaning they want to postpone their next birth for two years or more or not have any more children but are not using contraception. In Kenya, the unmet need for family planning stands at 26 percent, with higher rates in informal settlements.

Read full text by Jane Otai: ms-magazine.com/blog/2016/06/28/family-planning-transforms-lives-in-kenya/

Save the Royal Turtle

There might be only 10 of these turtles left in the wild.

Cambodia’s Royal Turtle, otherwise known as the Southern River Terrapin, is now one of the rarest turtle species in the world and is listed as one of the 25 most endangered tortoise and freshwater turtle species by the **International Union for the Conservation of Nature (IUCN)**.

They were once thought to have gone extinct, but a small population was rediscovered in 2000 and efforts began to help protect them from being harmed by predators and poaching of eggs and adults.

According to WCS, since 2001, combined conservation efforts resulted in 382 hatchlings. Over the summer last

year, another 21 of them were successfully released back into the wild.

Unfortunately, despite efforts to help these turtles recover, their future is looking grim. WCS is now raising concerns about how an increase in human activities in the Sre Ambel River System, which is the only place they still exist, are putting them at greater risk of disappearing.

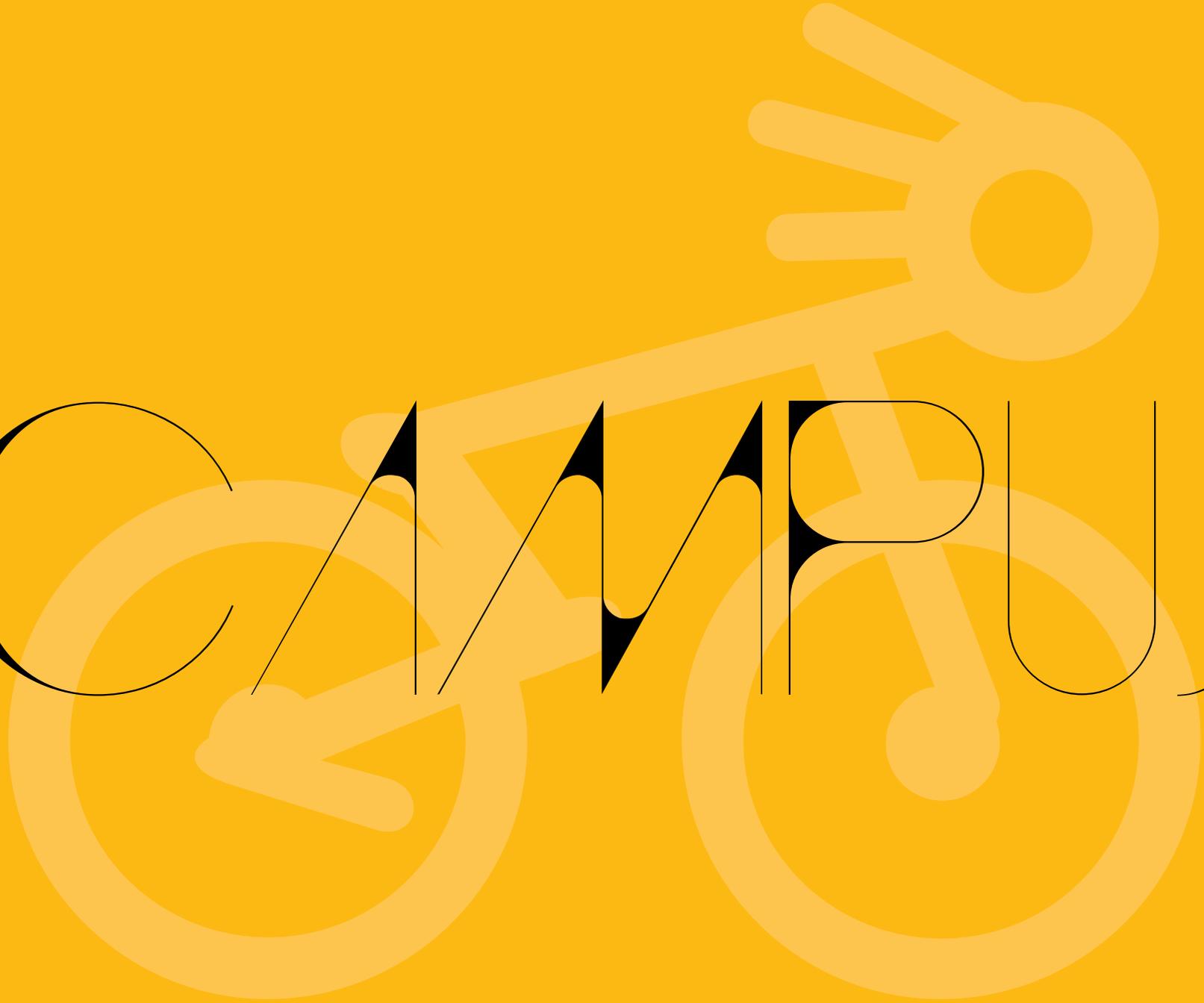
Now the organization believes there may be as few as only 10 of these turtles left in the wild.

Learn how to help: cambodia.wcs.org
www.sospecies.org/sos_projects/reptiles/river_terrapins/
www.turtlesurvival.org



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CAMPUS



Strategy and execution

by Anthony Tumbolo for Entrepreneur

Two of the three things you need, beside money, to start a successful business. (part 2/2)



Strategy

Now, just because you have knowledge of the industry doesn't mean you will be a success automatically. You also need a solid strategy. How will you acquire users or customers? How will you make money? How will you deliver the product or service that people want? Without a strategy, you are shooting in the dark and just working like a chicken with your head cut off. **Gary Vaynerchuck** describes this well in his article "**First Comes Smarts, Then Comes the Hustle**". Without a proper strategy, hustle is aimless and ineffective. **Fred Wilson** of **Union Square Ventures** also agrees in his article: "**Get the Strategy Right and The Execution Is Easy**".

Along the way things won't always go according to plan. You will have to adjust and react to things. But if you have a strategy in place, it will be much easier to do this.

A classic example of getting the strategy right comes from **PayPal**. **PayPal** realized it could offer a better payment method for **eBay** customers. Before **PayPal**, paying on **eBay** was painful and typically done by check. By offering instant payment, **PayPal** soon became the primary means of transferring money. As **eBay** grew, so did **PayPal**.

Execution

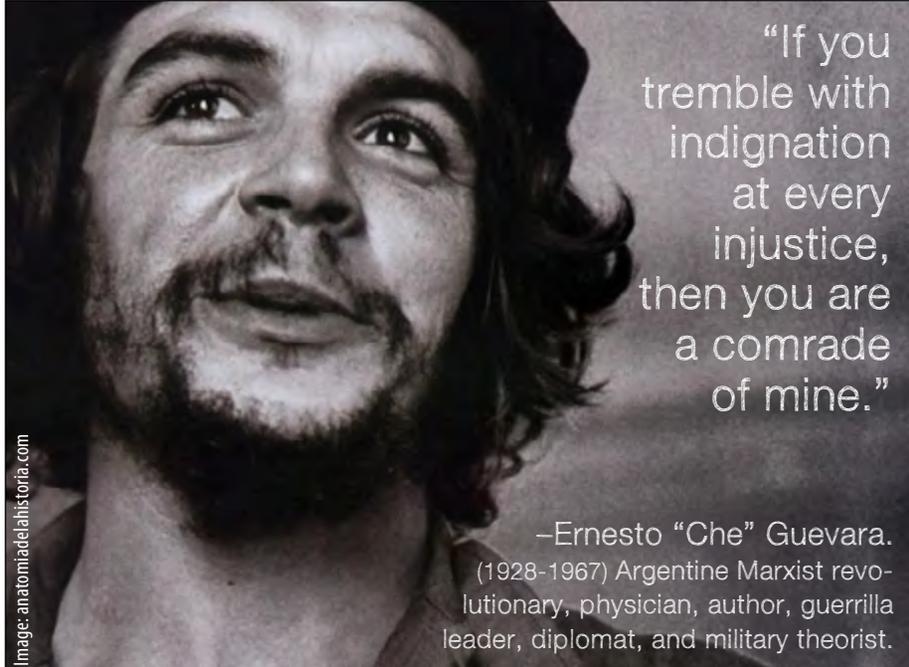
Great. You have a knowledge advantage and a strategy in place, now it's time to execute. Execution is a combination of two things: hard work (aka grit and hustle) and having the right team in place. Regarding hard work, **Sam Altman**, president of **Y Combinator**, sums it up well in a tweet: "[The] biggest predictor of massive success vs. minor success among founders: years and years of relentless determination."

But hard work alone won't see you through. You need the right team in place. For example, if you are trying to build a software product to solve the problem you've identified but don't have anyone on your team that can build it, the expertise and strategy don't mean anything. The nice thing about our world today is that there are so many people that have skills you can leverage to help with the execution. You don't necessarily need to have everything directly on your team and can begin executing by working with an external team of consultants like **JAKT**.

So there you have it, the three things you need to start a business. These aren't the only things you will need, but if you do have these three, the probability of success will be much higher.

Source: www.entrepreneur.com/article/275844

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“If you tremble with indignation at every injustice, then you are a comrade of mine.”

–Ernesto “Che” Guevara. (1928-1967) Argentine Marxist revolutionary, physician, author, guerrilla leader, diplomat, and military theorist.



HIFA Coffee Maker. Repurpose used coffee grounds to grow oyster mushrooms. By Adrián Pérez and Mauricio Carvajal. www.yankodesign.com

TOP 10 Tips for making lists

by Richard Branson

1. Write down every single idea you have, no matter how big or small.
2. Always carry a notebook.
3. Find a list method that works for you. Doodles, bullet-points, charts. What suits you best?
4. Make a list of small, manageable tasks to complete every day.
5. Mark off every completed task. You'll find making each tick very satisfying.
6. Make your goals measurable so you know if your plans are working.
7. Set far off, outlandish goals. What do you want to have achieved by 2020? How about 2050?
8. Include personal goals in your lists, not just business.
9. Share your goals with others. You can help motivate each other further.
10. Celebrate your successes. Then make new lists of new goals.

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www.thegrommet.com



Mini Power. Disposable smart-phone batteries by Tsung Chih-Hsien.
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Culinary Arts

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The Bachelor of Culinary Arts (BA) program offers students a unique opportunity to expand your foundational culinary and hospitality training by focusing on a wide range of topics relevant to advanced positions in the industry such as facilities and event management, financial management and cost control, marketing, research and writing, small business development, and organizational psychology. The Bachelor of Culinary Arts (BA) program is offered online via distance learning. After evaluating both academic record and life experience, AIU staff working in conjunction with Faculty and Academic Advisors will assist students in setting up a custom-made program, designed on an individual basis. This flexibility to meet student needs is seldom found in other dis-

ance learning programs. Our online program does not require all students to take the same subjects/courses, use the same books, or learning materials. Instead, the online Bachelor of Culinary Arts (BA) curriculum is designed individually by the student and academic advisor.

It specifically addresses strengths and weaknesses with respect to market opportunities in the student's major and intended field of work. Understanding that industry and geographic factors should influence the content of the curriculum instead of a standardized one-fits-all design is the hallmark of AIU's unique approach to adult education. This philosophy addresses the dynamic and constantly changing environment of working professionals by helping adult students

in reaching their professional and personal goals within the scope of the degree program.

IMPORTANT: Below is an example of the topics or areas you may develop and work on during your studies. By no means is it a complete or required list as AIU programs do not follow a standardized curriculum. It is meant solely as a reference point and example. Want to learn more about the curriculum design at AIU? Go ahead and visit our website, especially the Course and Curriculum section: aiu.edu/CourseCurriculum.html

Core Courses and Topics

- Food Ecology
- Food Safety
- Basic and Classical Cakes
- Beverages and Customer Service
- Beverage Management
- Business Planning
- Café Operations
- Chocolates and Confections
- Culinary Skills for Bakers
- Economics
- Classical Banquet Cuisine
- Composition and Communication
- Computers in the Food Business
- Confectionery Art and Special Occasion Cakes
- Baking and Pastry Skill Development
- Baking Ingredients and Equipment Technology
- Baking Techniques
- Contemporary Cakes and Desserts
- Controlling Costs and Purchasing Food
- Cookies, Tarts, and Mignardises
- Cuisines of Asia

- Cuisines of the Americas
- Cuisines of the Mediterranean
- Financial Management
- Food and Culture

Orientation Courses

- Communication & Investigation (Comprehensive Resume)
- Organization Theory (Portfolio)
- Experiential Learning (Autobiography)
- Seminar Administrative Development (Book Summary)
- Seminar Cultural Development (Practical Experience)
- Seminar International Development (Publications)

Research Project

- Bachelor Thesis Project
- MBM300 Thesis Proposal
- MBM302 Bachelor Thesis (5,000 words)

Publication. Each Bachelor of Culinary Arts graduate is encouraged to publish their research papers either online in the public domain or through professional journals and periodicals worldwide.

Contact us to get started

Submit your **Online Application**, paste your resume and any additional comments/questions in the area provided. aiu.edu/apply-online.html

Pioneer Plaza/900 Fort Street Mall 40
Honolulu, HI 96813
800-993-0066 (Toll Free in US)
808-924-9567 (Internationally)

ABOUT US

Atlantic International University offers distance learning degree programs for adult learners at bachelors, masters, and doctoral level. With self paced program taken online, AIU lifts the obstacles that keep professional adults from completing their educational goals. Programs are available throughout a wide range of majors and areas of study. All of this with a philosophically holistic approach towards education fitting within the balance of your life and acknowledging the key role each individual can play in their community, country, and the world.

Accreditation



Atlantic International University is accredited by the Accreditation Service for International Schools, Colleges and Universities (ASAC). ASAC Accreditation is an internationally renowned quality standard for colleges and universities. Visit ASAC's Directory of Accredited Colleges and Universities. ASAC is a member of CHEA International Quality Group (CIQG) in the USA, an approved accreditation body by the Ministerial Department of the Home Office in the UK, and is listed in the International Directory of the Council for Higher Education Accreditation (CHEA). AIU meets all state and federal laws as a degree-granting institution in the United States and the State of Hawaii. The University was legally established by corporate charter in 1998 and is in good standing.

While National Accreditation is common for traditional U.S. institutions of higher learning utilizing standard teaching methods, every country has its own standards and accrediting organizations. Accreditation is a voluntary process and does not guarantee a worthy education. Rather, it means an institution has submitted its courses, programs, budget, and educational objectives for review. AIU's Distance Learning Programs are unique, non-traditional and not accredited by the U.S. Department of Education. This may be a determining factor for those individuals interested in pursuing certain disciplines requiring State licensing, (such as law, teaching, or medicine). It is recommended that you consider the importance of National Accreditation for your specific field or profession.

Although Atlantic International University's individualized Distance Learning Degree Programs, are distinct from traditional educational institutions, we are convinced of their value and acceptance worldwide. Non-traditional programs are important because they recognize knowledge gained outside the classroom and incorporate a broader more comprehensive view of the learning experience. Many great institutions are unaccredited. We invite you to compare our programs and philosophy with traditional classroom-based programs to determine which is best suited to your needs and budget.

AIU has chosen private accreditation through the Accrediting Commission International (ACI), obtained in 1999. ACI is not regulated or approved by the US Department of Education. ATLANTIC INTERNATIONAL UNIVERSITY IS NOT ACCREDITED BY AN ACCREDITING AGENCY RECOGNIZED BY THE UNITED

STATES SECRETARY OF EDUCATION. Note: In the U.S., many licensing authorities require accredited degrees as the basis for eligibility for licensing. In some cases, accredited colleges may not accept for transfer courses and degrees completed at unaccredited colleges, and some employers may require an accredited degree as a basis for eligibility for employment.

AIU is incorporated in the state of Hawaii. As a University based in the U.S., AIU meets all state and federal laws of the United States. There is no distinction between the programs offered through AIU and those of traditional campus based programs with regards to the following: your degree, transcript and other graduation documents from AIU follow the same standard used by all U.S. colleges and universities. AIU graduation documents can include an apostille and authentication from the U.S. Department of State to facilitate their use internationally. Authentication from the U.S. Department of State is a process that will ultimately bind a letter signed by the U.S. Secretary of State (permanently with a metal ring) to your graduation documents.

If a student outside the U.S. wishes to carry out a particular procedure within a country's Department of Education regarding their degree earned at AIU, such procedures are to be carried out independently by the student. AIU respects the unique rules and regulations of each country and does not intervene or influence the respective authorities. We recommend prospective students who intend to carry out such procedures outside the U.S. to verify in detail the steps and requirements needed in order to be fully informed.



The AIU Difference

It is acknowledged that the act of learning is endogenous, (from within), rather than exogenous. This fact is the underlying rationale for "Distance Learning", in all of the programs offered by AIU. The combination of the underlying principles of student "self instruction", (with guidance), collaborative development of curriculum unique to each student, and flexibility of time and place of study, provides the ideal learning environment to satisfy individual needs. AIU is an institution of experiential learning and nontraditional education at a distance. There are no classrooms and attendance is not required.

Mission & Vision

MISSION: To be a higher learning institution concerned about generating cultural development alternatives likely to be sustained in order to lead to a more efficient administration of the world village and its environment; exerting human and community rights through diversity with the ultimate goal of the satisfaction and evolution of the world.

VISION: The empowerment of the individual towards the convergence of the world through a sustainable educational design based on andragogy and omniology.

Organizational Structure

Dr. Franklin Valcin PRESIDENT/ACADEMIC DEAN	Dr. José Mercado CHIEF EXECUTIVE OFFICER	Dr. Ricardo González PROVOST
Ricardo González CHIEF OPERATION OFFICER	Kingsley Zelee IT COORDINATOR	Nadia Gabaldon STUDENT SERVICES SUPERVISOR
Ofelia Hernandez DIRECTOR OF AIU	Felipe Gomez DESIGN DIRECTOR	Monica Serrano REGISTRAR OFFICE
Jaime Rotlewicz DEAN OF ADMISSIONS	Giovanni Castillo OPERATIONS ASSISTANT	Daritza Ysla ACCOUNTING COORDINATOR
Clara Margalef DIRECTOR OF SPECIAL PROJECTS OF AIU	Maria Serrano LOGISTICS COORDINATOR	Mario Cruz ADMINISTRATIVE COORDINATOR
Juan Pablo Moreno DIRECTOR OF OPERATIONS	Amalia Aldrett ADMISSIONS COORDINATOR	Yolanda Llorente ADMINISTRATIVE ASSISTANT
Miqueas Virgile IT DIRECTOR	Alba Ochoa ADMISSIONS COORDINATOR	Kimberly Diaz ACADEMIC TUTOR
Nadeem Awan CHIEF PROGRAMING	Sandra Garcia ADMISSIONS COORDINATOR	Liliana Penaranda ACADEMIC TUTOR
Dr. Jack Rosenzweig DEAN OF ACADEMIC AFFAIRS	Veronica Amuz ADMISSIONS COORDINATOR	Renata Da Silva ACADEMIC TUTOR
Dr. Edward Lambert ACADEMIC COORDINATOR	Junko Shimizu ADMISSIONS COORDINATOR	Lourdes Puentes ACADEMIC TUTOR
Dr. Ariadna Romero ACADEMIC COORDINATOR	Nazma Sultana ASSISTANT PROGRAMMING	Rina Lehnhoff ACADEMIC TUTOR
Carlos Aponte TELECOMMUNICATIONS COORDINATOR	Jhanzaib Awan ASSISTANT PROGRAMMING	Renato Cifuentes ACADEMIC TUTOR
Rosie Perez FINANCE COORDINATOR	Roberto Aldrett COMMUNICATIONS COORDINATOR	Arturo Vejar ACADEMIC TUTOR
Linda Collazo STUDENT SERVICES COORDINATOR	Chris Benjamin HOSTING SERVER	Arhely Espinoza ACADEMIC TUTOR
		Paulina Garcia ACADEMIC ASSISTANT

FACULTY AND STAFF PAGE: www.aiu.edu/FacultyStaff.html

School of Business and Economics



The School of Business and Economics allows aspiring and practicing professionals, managers, and entrepreneurs in the private and public sectors to complete a self paced distance learning degree program of the highest academic standard.

The ultimate goal is to empower learners and help them take advantage of the enormous array of resources from the world environment in order to eliminate the current continuum of poverty and limitations.

Degree programs are designed for those students whose professional

experience has been in business, marketing, administration, economics, finance and management.

Areas of study: Accounting, Advertising, Banking, Business Administration, Communications, Ecommerce, Finance, Foreign Affairs, Home Economics, Human Resources, International Business, International Finance, Investing, Globalization, Marketing, Management, Macroeconomics, Microeconomics, Public Administrations, Sustainable Development, Public Relations, Telecommunications, Tourism, Trade.

School of Social and Human Studies



The School of Social and Human Studies is focused on to the development of studies which instill a core commitment to building a society based on social and economic justice and enhancing opportunities for human well being.

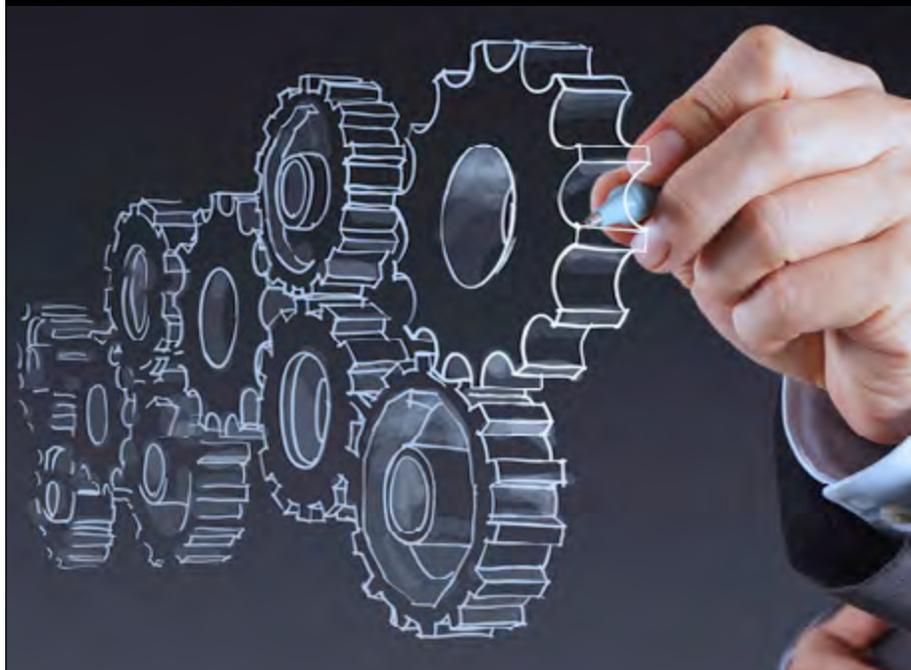
The founding principles lie on the basic right of education as outlined in the Declaration of Human Rights. We instill in our students a sense of confidence and self reliance in their ability to access the vast opportunities available through information channels, the world wide web, private, public, nonprofit, and nongovernmental

organizations in an ever expanding global community.

Degree programs are aimed towards those whose professional life has been related to social and human behavior, with the arts, or with cultural studies.

Areas of Study: Psychology, International Affairs, Sociology, Political Sciences, Architecture, Legal Studies, Public Administration, Literature and languages, Art History, Ministry, African Studies, Middle Eastern Studies, Asian Studies, European Studies, Islamic Studies, Religious Studies.

School of Science and Engineering



The School of Science and Engineering seeks to provide dynamic, integrated, and challenging degree programs designed for those whose experience is in industrial research, scientific production, engineering and the general sciences. Our system for research and education will keep us apace with the twenty-first century reach scientific advance in an environmentally and ecologically responsible manner to allow for the sustainability of the human population. We will foster among our students a demand for ethical behavior, an appreciation for diversity, an understanding of scientific investigation,

knowledge of design innovation, a critical appreciation for the importance of technology and technological change for the advancement of humanity.

Areas of Study: Mechanical Engineering, Industrial Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Computer Engineering, Physics, Chemistry, Biology, Mathematics, Communications, Petroleum Science, Information Technology, Telecommunications, Nutrition Science, Agricultural Science, Computer Science, Sports Science, Renewable Energy, Geology, Urban Planning.

Online Library Resources



With access to a global catalog created and maintained collectively by more than 9,000 participating institutions, **AIU** students have secured excellent research tools for their study programs.

The **AIU** online library contains over 2 billion records and over 300 million bibliographic records that are increasing day by day. The sources spanning thousands of years and virtually all forms of human expression. There are files of all kinds, from antique inscribed stones to e-books, from wax engravings to MP3s, DVDs and websites. In addition to the archives, the library **AIU** Online offers electronic access to more than 149,000 e-books, dozens of databases and more than 13 million full-text articles with pictures included. Being able to access 60 databases and 2393 periodicals with more than 18 million items, guarantees the information required to perform the assigned research project. Users will find that many files are enriched with artistic creations on the covers, indexes, reviews, summaries and other information. The records usually have information attached from important libraries. The user can quickly assess the relevance of the information and decide if it is the right source.

Education on the 21st century

AIU Service

AIU is striving to regain the significance of the concept of education, which is rooted into the Latin “educare”, meaning “to pull out”, breaking loose from the paradigm of most 21st century universities with their focus on “digging and placing information” into students’ heads rather than teaching them to think.

For AIU, the generation of “clones” that some traditional universities are spreading throughout the real world is one of the most salient reasons for today’s ills. In fact, students trained at those educational institutions never feel a desire to “change the world” or the current status quo; instead, they adjust to the environment, believe everything is fine, and are proud of it all.

IN A WORLD where knowledge and mostly information expire just like milk, we must reinvent university as a whole in which each student, as the key player, is **UNIQUE** within an intertwined environment.

This century’s university must generate new knowledge bits although this may entail its separation from both the administrative bureaucracy and the faculty that evolve there as well.

AIU thinks that a university should be increasingly integrated into the “real world”, society, the economy, and the holistic human being. As such, it should concentrate on its ultimate goal, which is the student, and get him/her deeply immersed into a daily praxis of paradigm shifts, along with the Internet and research, all these being presently accessible only to a small minority of the world community.

AIU students must accomplish their self-learning mission while conceptualizing it as the core of daily life values through the type of experiences that lead

to a human being’s progress when information is converted into education.

The entire AIU family must think of the university as a setting that values diversity and talent in a way that trains mankind not only for the present but above all for a future that calls everyday for professionals who empower themselves in academic and professional areas highly in demand in our modern society.

We shall not forget that, at AIU, students are responsible for discovering their own talents and potential, which they must auto-develop in such a way that the whole finish product opens up as a flower that blossoms every year more openly.

THE AIU STANCE is against the idea of the campus as a getaway from day-to-day pressure since we believe reality is the best potential-enhancer ever; one truly learns through thinking, brainstorming ideas, which leads to new solutions, and ultimately the rebirth of a human being fully integrated in a sustainable world environment. Self-learning is actualized more from within than a top-down vantage point, that is to say, to influence instead of requesting, ideas more than power. We need to create a society where solidarity, culture, life, not political or economic rationalism and more than techno structures, are prioritized. In short, the characteristics of AIU students and alumni remain independence, creativity, self-confidence, and ability to take risk towards new endeavors. This is about people’s worth based not on what they know but on what they do with what they know.

Read more at: aiu.edu

AIU offers educational opportunities in the USA to adults from around the world so that they can use their own potential to manage their personal, global cultural development. The foundational axis of our philosophy lies upon self-actualized knowledge and information, with no room for obsolescence, which is embedded into a **DISTANCE LEARNING SYSTEM** based on **ANDRAGOGY** and **OMNIOLOGY**. The ultimate goal of this paradigm is to empower learners and help them take advantage of the enormous array of resources from the world environment in order to eliminate the current continuum of poverty and limitations.

This will become a crude reality with respect for, and practice of, human and community rights through experiences, investigations, practicum work, and/or examinations. Everything takes place in a setting that fosters diversity; with advisors and consultants with doctorate degrees and specializations in Human Development monitor learning processes, in addition to a worldwide web of colleagues and associations, so that they can reach the satisfaction and the progress of humanity with peace and harmony.

Contact us to get started

Now, it’s possible to earn your degree in the comfort of your own home. For additional information or to see if you qualify for admissions please contact us.

Pioneer Plaza / 900 Fort Street Mall 40

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www.aiu.edu

Online application:

www.aiu.edu/apply3_phone.aspx