



UN-GGIM

UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Academic Network Americas – ANA
Prof. Rosario Casanova – Chair

<http://redacademica.org>

UN-GGIM Academic Network Americas

Executive Committee

Chair: Rosario Casanova, Uruguay

**Deputy Chair: Bhesem Ramlal,
Trinidad and Tobago**

Secretary: Jorge Prado, México

Manage ANA and coordinate tasks.

Advisory Board

- Daniel Páez, Colombia
- Daniel Del Cogliano, Argentina
- Charlotte Smith, United States
- Ricardo Crespo, Chile

Define general guidelines, membership applications, and coordinate work plans - actions



Country	Name of University	Person of Contact
Argentina	Universidad Nacional de La Plata www.unlp.edu.ar	Prof. Dr. Daniel Del Cogliano
Argentina	Universidad Nacional del Sur www.uns.edu.ar	Dra. Alejandra Mabel Geraldí
Antigua & Barbuda	Institute of Technology www.abiit.edu.ag	Michael Charles
Brazil	University of Brasilia, Research center CIGA www.ciga.unb.br	José Leandro de Araújo Conceição
Canada	University of New Brunswick www.unb.ca	Prof. David J. Coleman
Canada	University of Waterloo www.uwaterloo.ca	Dr. Saied Pirasteh
Chile	Observatorio de Ciudades UC www.estudiosurbanos.uc.cl	Ricardo Truffello
Chile	Universidad de Santiago	Ricardo Crespo
Colombia	University of Los Andes www.uniandes.edu.co/en	Prof. Daniel Paez
Mexico	Geography Institute www.igeograf.unam.mx	Dr. Jorge Prado Molina
Trinidad & Tobago	The University of the West Indies sta.uwi.edu	Dr. Bheshem Ramlal
Uruguay	University of Republic www.fing.edu.uy	Dr. Rosario Casanova
USA	University of Alabama geography.ua.edu	Dr. Johanna Engström
USA	University of California, Berkeley sph.berkeley.edu	Dr. Charlotte Smith
USA	University of Maine www.umaine.edu	Prof. Harlan Onsrud
USA	Harvard University www.harvard.edu	Prof. Wendy Guan
USA	Texas A&M University-Corpus Christi www.tamucc.edu	Prof. Gary Jeffress

The Academic Network Americas is a forum for universities and educational centers involved in research and development in geospatial information and related topics



Objectives:

- Support the goals of UN-GGIM Americas.
- Serve as subsidiary of the UN-GGIM Academic Network.



Activities

Courses:

- Current offerings
- Needs assessment

Support
community of
researchers

Working together:

- Working groups UN
GGIM: Americas
 - Private Sector
- Academic Network



Dissemination Activities?

*Catalogue of course
offerings*

**Research Network:
Collaboration Database**

**Showcase of best
practices**



Survey of offerings and needs for training courses – UN-GGIM Americas' Members

For the Institutions that Generate Cartography or in Charge of the Spatial Data Infrastructure:

***Are there are national academic centers that provide training in:**

- cartography?
- geographical data capture methods?
- quality standards of geographic information?
- methods of assessing the quality of geographic information?
- geoservices?
- integration of statistics with geospatial information?

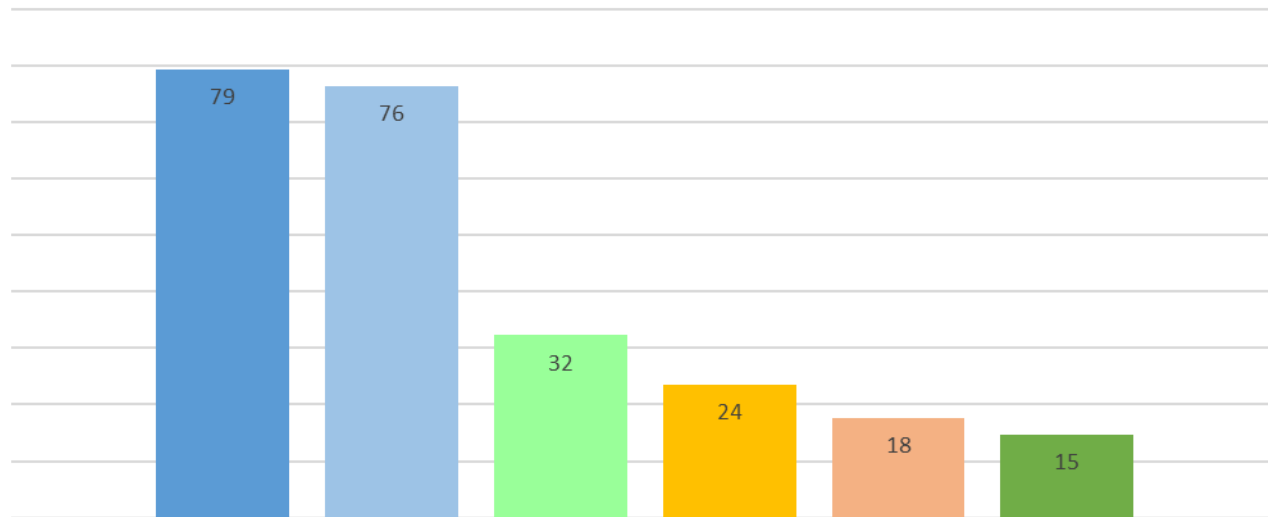
*** Agency/Company Name, Thematic area addressed.**

*** What thematic areas or specific concepts are needed to expand knowledge?**

34
responses



Países que tienen capacitación en/ Percentage of countries with education courses:



- Cartografía/ Cartography
- Métodos de captura de datos geográficos/ Geographical data capture methods
- Geoservicios/ Geoservices
- Normas de calidad de la información geográfica/ Quality geospatial Data Standards
- Métodos de evaluación de la calidad de la información geográfica/ Geospatial Data Quality Evaluation
- Vinculación de datos geoespaciales y estadísticos/ Integration of statistical with geospatial data



Porcentaje de países que identifican necesidad de capacitación en/ Percentage of countries that identify need for training in:



■ Geoservicios/ Geoservices

■ Manejo de IDE (políticas, interoperabilidad) / SDI Management

■ Calidad de la Información Geográfica/ Geographic Data Quality

■ Cartografía, Producción cartográfica/ Cartography

■ Percepción remota (Fotogrametría, UAV) / Remote Sensing

■ Vinculación datos geográficos y estadísticos/ Integration of statistics with geospatial information

■ Big Data

■ Aplicaciones específicas (modelados, hidrografía)/ Specific Apps

■ IoT

■ Uso de Datos colaborativos/ Voluntary Geographic Information (VGI)



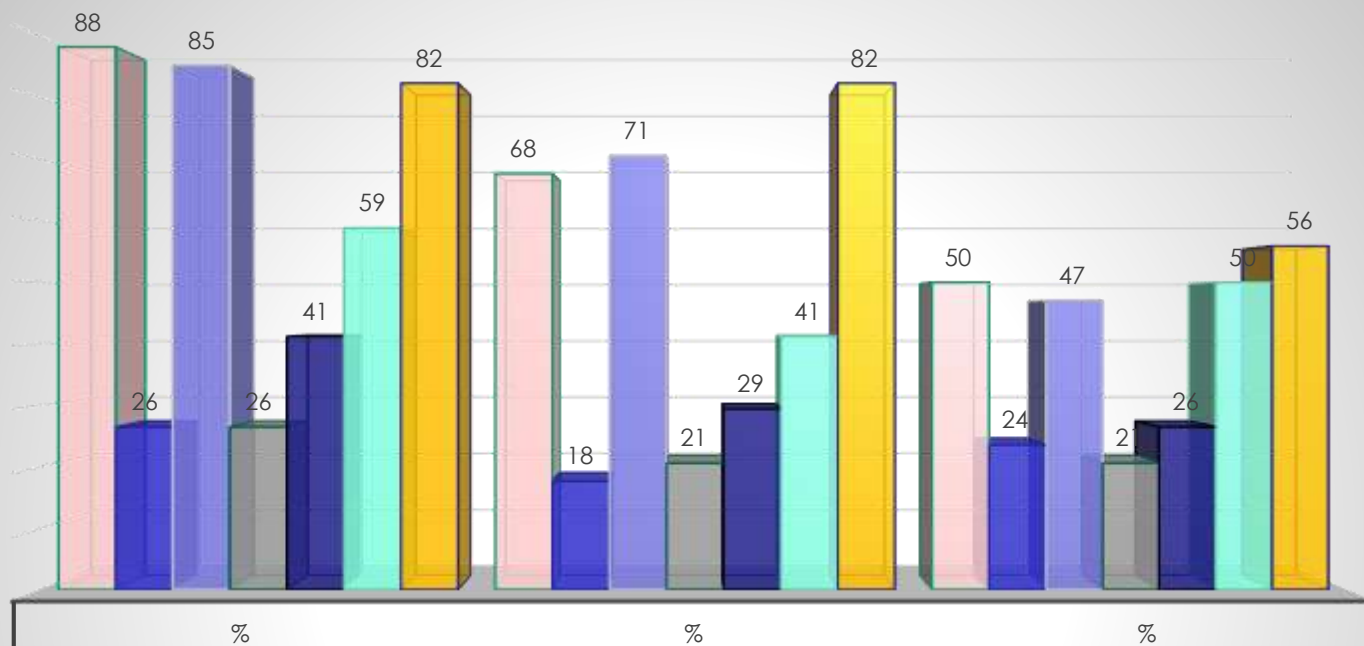
Survey of available courses & degree and postgraduate programs

34 responses
As of
Nov 2, 2018

Nombre de la Universidad, Facultad o Institución, País Name of University or Institute, Country	País Country
Universidad Nacional de Avellaneda	Argentina
Universidad Nacional de General Sarmiento	Argentina
Universidad Nacional de la Patagonia San Juan Bosco	Argentina
Universidad Nacional de Mar del Plata	Argentina
Universidad Nacional de Villa Maria, Instituto de Ciencias Sociales, Argentina	Argentina
Universidad Nacional del Centro de la Provincia de Buenos Aires	Argentina
Universidad Nacional del Sur	Argentina
Universidad Nacional del Sur	Argentina
Universidad Nacional del Sur, Departamento de Geografía y turismo	Argentina
Universidad Nacional San Juan	Argentina
UNLP-Universidad Nacional de La Plata	Argentina
Carleton University, Canada	Canada
Mount Royal University	Canadá
Universidad de Santiago de Chile	Chile
Instituto de Geografía / Facultad de Historia, Geografía y Ciencia Política / Pontificia Universidad Católica de Chile	Chile
Universidad Nacional del Valle/ Facultad de Ingeniería	Colombia
Universidad del Cauca-Popayan	Colombia
Universidad Nacional de Colombia	Colombia
Universidad de Manizales	Colombia
Pontificia Universidad Católica del Ecuador	Ecuador
University of Maine	Estados Unidos
Universidad Nacional Autónoma de México	México
Universidad de Sonora	México
Universidad Autónoma de Nuevo León, México	México
Universidad Nacional Autónoma de México	México
Universidad Veracruzana	México
Universidad de Quinta Roo	México
Universidad Autónoma de Zacatecas	México
Universidad de la República/ Facultad de Ingeniería/Instituto de Agrimensura	Uruguay
Universidad Bolivariana de Venezuela	Venezuela



Cursos que se dictan / Courses being taught



□ Ciencia Geoespacial/ Geospatial Science

■ Computación geoespacial (usando R o python) / Geospatial computing (using R or python)

■ Teledetección (Incluyendo imágenes satelitales)/ Remote sensing (Other than Photogrammetry)

■ Geodesia/ Geodesy

■ Fotogrametría (No incluyendo imágenes satelitales) / Photogrammetry

■ Integración de información estadística con datos geoespacial/ Integration of statistics with geospatial information

■ Cartografía/Cartography



Catalogue of course offerings

Example – on a web-based platform

COURSE NAME: Using the statistical software R for Estimating and Mapping Regionally Disaggregated Indicators

SUMMARY: This course is intended to introduce people to the library called “*emdi*” of the statistical software R that enables the **estimation of regionally disaggregated indicators** using small area estimation methods and includes tools for processing, assessing, and presenting the results. The mean of the target variable, the quantiles of its distribution, the headcount ratio, the poverty gap, the Gini coefficient, the quintile share ratio, and customized indicators are estimated using direct and model-based estimation with the empirical best predictor

TARGET AUDIENCE People from public or private institutions dedicated to study and map socioeconomic and environmental indicators at disaggregated level.

TIME LENGTH: three weeks

MODALITY: e-learning

CONTACT: info_courses@unggim.org

Research Network: Collaboration Database

Date	Name	Deg.	Type of research work seeking	Year exp.	Area of expert	Start date	End date	LinkedIn profile	Link to Website	Contact Information (Email)
Fecha de ingreso de los datos	Nombre	Grado académico	Tipo de investigación que busca	Años de exper	Área de exper	Fecha de inicio	Fecha de finalización	Perfil de LinkedIn	Link a la página web	Información de contacto (Email)

Project Title	Project Lead	Short Description of Overall Project	Short description of need	Education requested	Types of skills needed	Start date	End date	Conditions of collaboration (duration, location)	Salary available (yes/no)
Título del proyecto	Nombre del lider del proyecto	Breve descripción del proyecto general	Breve descripción de la colaboración que se necesita	Conocimientos académicos requeridos	Habilidades requeridas	Fecha de inicio	Fecha de fin	Condiciones para la colaboración (duración, ubicación)	Salario dispo (si/no)



Identify topics in common with
Working groups, Private Sector and
Academic Network

Meetings with
Executive Board of
UN GGIM
Americas

Participating in
meeting of working
groups of UN GGIM
Americas

Meetings with
Private Sector -
Webinar

Meetings with
Academic
Network



Challenges?

***Accessibility: Internet/
Financial Resources***

**Different realities, so
not possible to have a
“one size fits all”
approach**

**International
projects not
including its
sustainability**

***Make decision makers
aware of the relevance
and implications of
working with GeoSpatial
Data in a proper way***

***High costs of not
doing the things
well !***



**WE ARE READY, AVAILABLE AND WAITING FOR
PATERNSHIPS
(TO HELP YOU WITH YOUR INITIATIVES)**



Thank you and join us

<http://redacademica.org>

casanova@fing.edu.uy



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