

Ing. ANGELIKI PEPONI

PERSONAL SKILLS



Teamwork



Creative



Critical Thinking



Time
Management



Communication
skills

Angeliki Peponi is a Ph.D. candidate in Geography with a specialty in Regional and Urban Planning at the Institute of Geography and Spatial Planning, Universidade de Lisboa and in Applied Landscape Ecology at the Faculty of Environmental Sciences, Czech University of Life Science Prague under cotutelle agreement. She is a young researcher at the Centre of Geographical Studies (CEG). Her current research interest is the coupling of natural and urban systems through smart and regenerative planning and design, under the circular metabolism concept from an ecosystem services perspective. Angeliki is adaptable and ambitious, dedicated, and hardworking, keen to continuously explore and improve knowledge and skills in the geographical field of studies.

AREAS OF EXPERTISE/ RESEARCH FIELDS OF INTEREST

Spatial Data analysis | Report writing | Project management | Information Technology | Geographical Modeling | ANN | Urban Metabolism | Urban Analytics | Natural-urban systems' dynamics | System resilience | Ecosystem services | Ecological indicators | Restoration ecology | Landscape ecology | Ecological connectivity | Regenerative design | Sustainable development |

EDUCATION AND QUALIFICATIONS

(2013-2016) MSc. LANDSCAPE PLANNING, CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE, CZECHIA

DIPLOMA THESIS: Artificial Neural Networks for Integrated Coastal Zone Management, study area Costa Caparica, Portugal, Grade: 1 (on scale 3 (lowest) to 1 (highest))

(2006-2012) B.Sc. GEOGRAPHY, HAROKOPIO UNIVERSITY OF ATHENS, HELLAS

DISSERTATION: Geomorphological study of the archaeological site Ramnountas NE Attica, Grade: 10 (on scale 1 (lowest) to 10 (highest))

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(2017 Sep-Jan) ERASMUS STUDIES, GEOCOMPUTATION, INSTITUTE OF GEOGRAPHY AND SPATIAL PLANNING, LISBON, PORTUGAL

(2010 Jan- Jun) ERASMUS STUDIES, AMÉNAGEMENT-GÉOGRAPHIE UNIVERSITÉ DE LILLE 1 SCIENCES ET TECHNOLOGIES, FRANCE

LANGUAGES

HELLENIC: mother tongue | ENGLISH: fluent | SPANISH: B2 | FRENCH: B2 | PORTUGUESE: A2

CERTIFICATIONS

- (2018) PORTUGUESE LANGUAGE CERTIFICATE LEVEL A2, from Lisbon Language School <https://lisbonlanguageschool.com/>, LISBON, PORTUGAL
- (2008) ENGINEERING AND MECHANICAL DESIGN (CAD Professional Certificate), from VELLUM GLOBAL EDUCATIONAL SERVICES, ATHENS, HELLAS
- (2005) DIPLOMA IN FRENCH LANGUAGE STUDIES (B2), from Ministry of Higher Education, of Research and Innovation, French.

COMPUTER LITERACY

Competent with:

GIS & REMOTE SENSING: ArcGIS Desktop (ArcMap, ArcCatalog, ArcTools, 3D Analyst, Spatial Analyst, Network Analyst, Image Analyst, Geostatistical), ESRI CityEngine, IDRISI, QGIS,

CAD: MicroStation, AutoCAD

GRAPHIC DESIGN: Adobe Illustrator, Adobe InDesign, CorelDraw, SketchUp

STATISTICS: SPSS, R Statistical, STATISTICA

GRANDS, AWARDS, AND SCHOLARSHIPS

- (2019-present) SCHOLARSHIP, UNIVERSITY OF LISBON (Universidade de Lisboa), PORTUGAL for Ph.D. studies
- (2016-2020) SCHOLARSHIP, CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE, CZECHIA for Ph.D. studies
- (2016) THE RECTORS PRIZE, CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE, CZECHIA for outstanding results achieved during university studies
- (2008) 2ND PRAISE, HELLENIC SOCIETY OF SWEDISH SCHOLARS, ATHENS, HELLAS for photography competition with the theme "Space and Human"

CONFERENCES

- Viana, C., Peponi, A. (6/2019). Revealing the cereal production in Portugal: a time-series analyses for sustainable agriculture. Presentation at 10th Central and South-Eastern Europe Conference 2019, Sarajevo, Bosnia
- Peponi, A., Morgado, P., Kumble, P. (11/2018). Geotechnologies as a Tool to Monitor and Implement Blue-Green Infrastructure for Smart Urban Development. Presentation at XVI Colóquio Ibérico de Geografia, Lisbon, Portugal.
- Peponi, A., & Morgado, P., (4/2018). Visualization of Environmental Quality in 3D city model. Presentation at 3rd International Conference Urban E-Planning, Lisbon, Portugal.
- Peponi, A., & Morgado, P., (4/2018). 3D Geovisualization City-scenarios with combined data for Noise and Air Quality Mapping. Presentation at ICHGS – 2018: 11th International Conference of the Hellenic Geographical Society, Lavrion, Hellas.

PUBLICATIONS

- Peponi, A.; Morgado, P.; Kumble, P. Life Cycle Thinking and Machine Learning for urban metabolism assessment and prediction. *Sustainable Cities and Society* **2021**, *80*, 103754. <https://doi.org/10.1016/j.scs.2022.103754>
- Peponi, A.; Morgado, P. Transition to Smart and Regenerative Urban Places (SRUP): Contributions to a New Conceptual Framework. *Land* **2021**, *10*, 2. <https://doi.org/10.3390/land10010002>

Ing. ANGELIKI PEPONI

Peponi, A.; Morgado, P. Smart and Regenerative Urban Growth: A Literature Network Analysis. *Int. J. Environ. Res. Public Health* **2020**, *17*, 2463. <https://doi.org/10.3390/ijerph17072463>

Peponi, A.; Morgado, P.; Trindade, J. Combining Artificial Neural Networks and GIS fundamentals for Coastal Erosion Prediction Modelling. *Sustainability* **2019**, *11*(4), 975. <https://doi.org/10.3390/su11040975>

Under Review

Peponi, A.; Morgado, P.; Kumble, P. Measure and Assessment of Ecological Connectivity. A comparison study of the Functional Urban Areas of Prague, Czech Republic and Lisbon, Portugal. *Ecologies* **2021**.

TEACHING EXPERIENCE

(WS 2019/2020)

GIS I, Department of Spatial Sciences (FES), Faculty of Environmental Sciences, Czech University of Life Science Prague, master students, seminar 2hrs/week.

Course objectives:

GIS course makes students acquainted with Geographical information systems and possibilities of their utilization. GIS is introduced as a tool for obtaining, managing, and analyzing spatial data. The main point of view is the possibility of using GIS as an analytical tool for geodata processing. Except theoretic basis students master working with GIS software, creating spatial data, and solving simple analyses.

(WS 2019/2020)

Landscape Planning Studio I (LPS), Department of Landscape and Urban Planning, Faculty of Environmental Sciences, Czech University of Life Science Prague, master students, seminar, lecture 4hrs/week.

Course objectives: The graduates have got basic knowledge of geodesy e. g. angle, distance and height difference measurement, setting-out, working with maps in context with maps development and real estate cadastre or remote sensing. During exercises, students are trained to use both classic measure instruments and modern electronic measure instruments. The graduates are able to form map series or to work with the existing map base. They can work with the information of the real estate cadastre. They can survey a small service area and lay out elementary buildings. The study area was the Rokytka stream's catchment area.

(SS 2018/2019)

Sistemas e Instrumentos de Planeamento (SIP)- (Planning systems and Instruments), Institute of Geography and Spatial Planning, Universidade de Lisboa, bachelor students, seminar 2/week

Ing. ANGELIKI PEPONI

Course objectives: SIP course makes students acquire the concepts, principles, objectives, and the ability to interpret the dynamics of spatial transformation. They are able to analyze problems of spatial planning and critically reflect on possible causes and consequences using GIS.

WORKSHOPS FACILITATED

(SS 2019/2020)

LANDSCAPE PLANNING STUDIO WORKSHOP, Department of Landscape and Urban Planning, Faculty of Environmental Sciences, Czech University of Life Science Prague, for master students

(04/2019)

GEOGRAPHICAL MODELING AND SPATIAL ANALYSIS WORKSHOP, Institute of Geography and Spatial Planning, Universidade de Lisboa, and Sorbonne University Abu Dhabi.

PROJECTS

(2021-2024)

Research Member of **SUSTAINABLE TRANSFORMATIVE TRANSITIONS (SUS2TRANS)- CONCILIATE ACCELERATED LOW CARBON TRANSITIONS WITH SYSTEM TRANSFORMATIONS**, *PTDC/GES-AMB/0934/2020*, PI Nuno Bento (ISCTE - Instituto Universitário de Lisboa (ISCTE-IUL)). Angeliki's main role: to conduct a systematic literature review on the geographical patterns of emerging technologies, and to identify the disruptive technologies (M3) that will be published in a scientific paper (WP2).

(2021-2025)

Collaboration researcher of **eMOTIONAL Cities – Mapping the cities through the senses of those who make them**, *H2020-SC1-BHC-2018-2020*. PI Paulo Morgado (IGOT-ULisboa). Angeliki's collaboration on a systematic review on neurourbanism: evidence on how the urban built environment impacts people's mental health.

INTERNSHIPS, PROFESSIONAL EXPERIENCE

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(2/2018-4/2018) **IGOT** www.igot.ulisboa.pt, **Internship Researcher: Working** on 3D Visualization of Urban models, **Utilized** City Engine and GIS to track, analyze and visualize data

(04/2017- 15/07/2017) (02/2016-07/2016) (07/2015-09/2015) **IGOT, Internship Researcher: Working** on coastal erosion prediction and coastal urban systems, **Utilized** Artificial Neural Networks and GIS to conduct sensitivity analysis and scenario building

(5/2013-7/2013) **OFFICES SERVICE** www.officesservice.gr, **Computer Operator:** data entry and configuration, **Utilized** Adobe InDesign

(2/2011-7/2011) **HELLENIC STATISTICAL AUTHORITY** www.statistics.gr, **Section Manager:** Census Population-Residential2011

(7/2010- 3/2011) **KOBATSIARIS BROS. S.A** www.kobatsiaris.gr, **Secretarial Support:** Archiving, call center, organization appointments

ADDITIONAL INFORMATION

Interests: Traveling | Fine arts | Photography | Tango |

Driving license: Category B since 2007