

DR. EVANGELIA (EVELYN) PANAGAKOU

Email: e.panagakou@northeastern.edu | Tel.: (+1) 857-308-9023

LinkedIn: <https://www.linkedin.com/in/evelynpanagakou/>

SHORT BIO

As the Education, Outreach, and Belonging Coordinator at the Network Science Institute, I leverage my background in Physics, Mathematics, Network Science, Complex Systems, and Educational Psychology to design and manage educational programs that support the learning and professional growth of students and early-career researchers. My experience includes managing academic programs, facilitating professional development workshops, overseeing student mentorship, coordinating cross-institutional initiatives, and supporting student career pathways. With a strong commitment to educational development and student success, I engage closely with students, faculty, and administrators to foster impactful learning environments and drive positive outcomes for students and programs.

EDUCATION

Bachelor's	Master's	Ph.D.
• Physics (2007) National and Kapodistrian University of Athens, Greece	• Applied Mathematics (2008) University of Massachusetts, Amherst, USA • Applied Developmental and Educational Psychology (2020) Boston College, Chestnut Hill, USA	• Physics (Complex Systems) (2015) National and Kapodistrian University of Athens, Greece

COLLEGE TEACHING CERTIFICATE

For the completion of the Teaching Training Program: Apprenticeship in College Teaching (2020 – 2022)

In preparation for a future career in teaching

Awarded by the Center for Teaching Excellence and the Office of the Provost of Boston College

ACADEMIC POSITIONS

Northeastern University

05.2025 – 06.2025 Visiting Lecturer in Digital and Computational Studies

Bates College

Designed and taught a new short-term undergraduate course “Data, AI, and Society: Implications in Research and Practice”

01.2021 – Present Education, Outreach, and Belonging Coordinator

Network Science Institute (NetSI)

Built and run NetSI Research Co-op Program; Science Communication advisor for the NetSI Research Co-op Program [for undergraduate and master’s students]

Built and run NetSI Professional Development Series (20+ workshops)

Built NetSI mentoring program

Mentor students as they prepare applications for graduate fellowships (e.g. NSF GRFP, DOD NDSEG, dissertation fellowships)

Participate in the PhD Program Curriculum Committee

Develop outreach activities to bring Network Science to K-12

Did preliminary work for the development of a short course on fundamental mathematical and statistical concepts for network science in AY21-22 (designed and administered entry test on calculus, probability, statistics, and linear algebra, co-taught modules on basic calculus concepts, approximation theory, probability distributions, entropy, Lagrange multipliers)

Designed a syllabus for a bootcamp math course to be offered to incoming PhD students in the AY26-27

Undertake tasks to help run the Network Science PhD Program (e.g. create mentor plans for our PhD students; manage the Admissions Process for the Fall 2025; organize and host Open house for admitted PhD applicants; hold weekly meetings with Program Director and NetSI Ex. Director to plan the program; help re-design annual review and new self-evaluation process for PhD students; contribute to proposal for catalog program changes and course reactivations, contribute to design a new award process for conference funding for students, mentor students to organize student research symposium, nominate students for university fellowships etc)

Form collaborations with NU colleagues and outside stakeholders:

Cross-University Communication Collaborative | 2021 - 2024

Meet with colleagues (staff & faculty) across the University on a bi-weekly basis to discuss graduate student challenges and opportunities with regards to professional development. Strategized innovative short and long-term support solutions; did a university-wide survey on graduate student needs; organized professional development workshops for graduate students

Graduate Fellowship Club – NU Collaboration (COE COMM Lab, Khoury College Graduate Program & NetSI) | 2022 – 2024

Weekly Summer and Fall graduate fellowship support with fellowship writing tips and guidance, draft review sessions, panels with previous fellowship recipients

Planning Committee of Future Faculty Workshop | 2021 – 2024

Organized by NU Advance Office of Faculty Development to guide future applicants for faculty positions on how to prepare their application materials – focused on supporting applicants from underrepresented populations

01.2018 – 04.2018

Part-time Lecturer, Physics Department, Northeastern University
Taught Physics 1125, Introduction to Network Science

07.2016 – 07.2018

Postdoctoral Research Associate

Laboratory for the Modeling of Biological and Socio-technical Systems
[MOBS Lab]

Advisor: Prof. A. Vespignani

Worked on computational epidemiology and educational projects

Examples of educational projects: a) Educational module for high school students including the Model description and simulation Implementation for a hypothetical viral epidemic - for the National Center for the Advancement of Stem Education (nCSE);

b) PhD program assessment (work with grad students, faculty members, program and institute directors, staff on a survey, focus groups, and research)

Brandeis University

07.2015 – 06.2016

Postdoctoral Researcher

Nonlinear Dynamics Group [Epstein Group], Chemistry Department
Fraden Lab, Physics Department

Advisor: Prof. I. Epstein

Worked on Nonlinear Dynamics. Specifically modeling and experimenting on coupled chemical oscillators on etched silicon chips

02.2015 – 07.2015

Research Scholar

Nonlinear Dynamics Group [Epstein Group], Chemistry Department

Advisor: Prof. I. Epstein

Worked on Nonlinear Dynamics. Studied and modeled chemical oscillators using the Oregonator model and piecewise linear approximation, for the Belousov-Zhabotinsky reaction

The Open University, UK

07.2014 – 06.2017

Visiting Research Fellow

School of Engineering & Innovation

Supervising Faculty: Prof. J. Johnson

Worked with Prof. Jeff Johnson and the Étoile team on the preparation and management of peer-review experiment on Hyper-networks and MOOCs on the Global Systems Science and Policy and on Data Science with Google Analytics

AWARDS

- ❖ Nominated for the Northeastern University **Dream Team Staff Excellence Award**
- ❖ **Outstanding Staff Teamwork Award** – College of Engineering, Northeastern University | 2023
- ❖ **Service Award** by the Complex Systems Society (CSS) (to the Young Researchers Network on Complex Systems) for our contribution to the Community of Complex Systems | 2015
- ❖ **PhD Scholarship** by the National Center of Scientific Research “Demokritos” | 2010–2014

- ❖ **Tuition Scholarship** by Athens Information Technology to attend the graduate program *Information and Telecommunications Technologies* | 2008 – 2009
- ❖ **Prestigious distinction and commendation** in the 59th nationwide Mathematics Competition “Euclides” by the Greek Mathematical Society | 1999
- ❖ **Honorships** by the Ministry of Education, the Greek Army and the Cultural Center of Papagou for being an excellent student and ranking 1st in my school | 1995 – 2001
- ❖ 19 **medals**, 11 **cups** for winning individual & team nationwide chess championships | 1990 – 1995

TEACHING EXPERIENCE

Bates College

05.2025 – 05.2025 **Instructor**, DCS s34, Data, AI & Society: Implications in Research & Practice
 Department of Digital and Computational Studies (DCS)
 Designed and taught the course

Boston College

03.2021 – 03.2021 **Guest Lecturer**, APSY2217, Statistics for Applied Psychology
 Pre-recorded session taught on Hypothesis Testing

06.2020 – 07.2020 **Designer of curriculum activities**, APSY 2217, Statistics for Applied Psychology,
 Supervisor: Dr. M. Vasilyeva

Northeastern University

01.2018 – 04.2018 **Instructor**, Physics 1125, Introduction to Network Science
 Taught half the course, developed content (slides, assessments, notes), graded assessments, held office hours - Course included math for network science: linear algebra and statistics fundamental concepts

01.2017 – 04.2017 **Associate Lecturer**, Physics 1125, Introduction to Network Science
 Assisted in teaching as a postdoc researcher
 Gave a few lectures, developed content (slides, assessments, notes), graded assessments; held office hours - Course included math for network science: linear algebra and statistics fundamental concepts

Brandeis University

01.2016 – 05.2016 **Secondary Instructor**, Physics 10b, Introduction to Physical Laws and Phenomena II, while collaborating as a postdoc with Fraden Lab
 Supervisor: Prof. S. Fraden
 Helped with course planning, supervised instruction, replied to student questions on the Textbook using the platform Perusall, graded exams, held office hours; pre-med students

01.2016 – 05.2016 **Teaching Fellow**, Responsible Conduct of Research, Brandeis University
 Supervisor: Dr. A. Olivier-Mason
 Helped with course preparation; helped instruction in an amphitheater by guiding groups of students through activities and answering questions

The Open University, UK

- 07.2018 – 12.2018 **Co-Educator**, First Steps in Data Science with Google Analytics: Bridging Business to Technical Experts, two-week recurrent MOOC course on FutureLearn
- 02.2016 – 12.2017 **Co-Educator**, Global Systems Science and Policy: An introduction, two-week recurrent MOOC course on FutureLearn
- 04.2014 – 07.2014 **Assisted with teaching activities** for the Introduction to Hypernetworks an Etoile "Experiment" on peer-marking that took place at the 4th PhD Summer School and Conference on Mathematical Modeling of Complex Systems

After School Program, Secondary and Higher Education E. Stogiannis (Athens, Greece)

- 09.2009 – 05.2013 **Mathematics Teacher**
- Taught mathematics to groups of one-four students for four-five hours per day, six days per week during the academic year (number of week hours differed by school year).
Level: Middle School, High School, College
Concepts taught: algebra, trigonometry, geometry, analytic geometry, vector calculus, single and multivariate calculus, intro to number theory, intro to complex analysis, intro to probability and statistics

University of Massachusetts, Amherst

- 02.2008 – 05.2008 **Teaching Assistant**, Math 121, Linear Methods and Probability for Business, Department of Mathematics and Statistics, University of Massachusetts, Amherst | Supervisor: J. Beaulieu
Taught recitation sections; assisted during lecture sessions; proctored exams; graded exams; held office hours
- 02.2007 – 05.2007 **Teaching Assistant**, Math 121, Linear Methods and Probability for Business, Department of Mathematics and Statistics, University of Massachusetts, Amherst | Supervisor: C. Benincasa
Assisted during lecture sessions; proctored exams; held office hours

National and Kapodistrian University of Athens, Greece

- 01.2005 – 06.2005 **Teaching Assistant**, 10Y052, Electronics I Lab, Physics Department, University of Athens (Athens, Greece) | Supervisor: G. Tombras

ADDITIONAL TEACHING EXPERIENCE

- 12.2018 – 03.2020 **Instructor**, First-grade Math Intervention, Boston College Team (Boston)
Taught decomposition strategy using Montessori manipulatives. Part of experimental design study
- 01.2019 – 04.2019 **Intern**, St. Columbkille Partnership School, part of the Applied Developmental and Educational Psychology program at Boston College
On a weekly basis helped 5th grade students with solving math problems and joined meetings with heads of school and teachers to discuss student progress and support
- 09.2017 – 05.2018 **Teacher** (volunteer), Pre-K, Greek School of Annunciation Greek Orthodox Cathedral (Boston)
- 09.2008 – 12.2014 **Chess teacher** (occasionally), Chess Club "Aigli Papagou", Greece

TEACHING-RELATED SERVICE

I have co-designed and co-delivered the following workshops:

- ❖ **Designing Poster Narratives**, NU Impact Symposium & NU COE CommLab, Northeastern University (02.2025) [invited]
- ❖ NU Graduate Greatness Workshop: Professional Skills for Academic Success: **Career Planning & Job Search Strategies** (10.2024) [invited]
- ❖ NU Graduate Greatness Workshop: Professional Skills for Academic Success: **Networking and Professional Development** (10.2024) [invited]
- ❖ NU Graduate Greatness Workshop: Professional Skills for Academic Success: **Research Lifecycle** – (10.2024) [invited]
- ❖ NU Graduate Greatness Workshop: Professional Skills for Academic Success: **Effective and Engaging Presentation Skills: From Pre-Planning to a Standing Ovation** – (09.2024) [invited]
- ❖ NU Graduate Greatness Workshop: Professional Skills for Academic Success: **Communication Strategies for Effective Cross-Cultural Collaborations** – (09.2024) [invited]
- ❖ **Charting Your Career Course: Maximize Success with an Individualized Development Plan** – NetSI (05.2024)
- ❖ **Pitch Perfect: Building Your Professional Introductions** – NetSI (02.2024)
- ❖ **Communication Kickstart for Academic Success** – NU (11.2023)
- ❖ **Graduate student workshop: Skills for small talk in networking** – NU (04.2023)
- ❖ **Doctoral Networking Strategies** – NU (04.2023)
- ❖ **PhD Fellowship Workshop: Preparing your application essays** – NU/NetSI (09.2021)

In addition, I have designed and/or moderated the following workshops:

- ❖ Navigating Peer Review (Panel & Hands-on workshop) – NetSI | 25 Feb & 11 Apr, 2025
- ❖ Communicating with Purpose: strategies for connection, navigating conflict, and self-advocacy – NetSI | Apr 2, 2024
- ❖ Negotiating Job offers in Industry & Academia – NetSI | Dec 5, 2023
- ❖ How to design your website with Wix – NetSI | May 2, 2023
- ❖ Building support for your research and ideas: How to approach what you say or write – NetSI | Mar 14, 2023
- ❖ How to receive, request and give feedback – NetSI | Dec 1, 2022
- ❖ How to conduct informational Interviews and prepare for your job talk – NetSI | Oct 25, 2022
- ❖ Design Your Website with Wix – NetSI | May 16, 2022
- ❖ How to tell your story and sell yourself in job interviews – NetSI | Apr 12, 2022
- ❖ How to build more productive science collaborations – NetSI | Mar 22, 2022
- ❖ How to be a more effective and engaging science communicator – NetSI | Mar 8, 2022
- ❖ Future Faculty Training: The Academic cover letter & CV – NetSI | Feb 1, 2022
- ❖ Future Faculty Training: Applying, Interviewing, and Negotiating – NetSI | Nov 19, 2021
- ❖ Stress, Distress, and UHCS (University Health and Counseling Services) – NetSI | Oct 5, 2021
- ❖ Inside the PhD Fellowship Experience: Grad student panelists share advice and insights – NU/NetSI | Sep 2, 2021
- ❖ CV & Website (Panel) – NetSI | May 20, 2021
- ❖ Website Development – NetSI | May 13, 2021
- ❖ CV Development – NetSI | May 6, 2021

I have been an author, triage judge, final judge, and triage coordinator:

- ❖ Interdisciplinary Contest in Modeling (ICM) at the Consortium for Mathematics and Its Applications (COMAP) (09.2016 – 04.2018; 11.2020 – 07.2021)

I have volunteered as an instructor:

- ❖ **Network Science & Education Script co-Writer**
Co-wrote the script for an educational introductory short video on network science (2023)

- ❖ Network Science & Education (NetSciEd) Instructor
Taught Network Science, included fundamental linear algebra concepts to high-school teachers, bi-weekly virtual meetings (09.2021-06.2022)
- ❖ Volunteer in Educational Outreach Activities, Brandeis University (06.2016)

I have been a committee member:

- ❖ Steering (Task Force) Committee for the Doctoral Program in Applied Developmental and Educational Psychology, Boston College (08.2019 – 06.2020)

RESEARCH-RELATED SERVICE

I have co-founded the following organizations:

- ❖ Society of Young Network Scientists (SYNS), 2017
- ❖ Young Researchers Network on Complex Systems (yrCSS), 2013

I have been a co-organizer of the following scientific meetings:

- ❖ Satellite Symposium **NetSciEd** (Network Science and Education) at NetSci **2018 – 2025** (also main point of contact)
- ❖ New England Future Faculty Workshop **2021- 2024** (planning committee, content committee, outreach committee member - differs depending on the year)
- ❖ Satellite Symposium **Diversify NetSci** (Diversify Network Science) at NetSci 2024, 2022 (also main point of contact)
- ❖ Complex Systems Society (CSS) **Warm-up School** in 2018 & 2016
- ❖ Conference on Complex Systems (CCS) in Thessaloniki, Greece, September 2018 (responsible for young researcher events)
- ❖ Northeast Regional Conference on Complex Systems (NERCCS) - conference & school, 2018 (also school Chair)
- ❖ Workshop **Complex Systems Literacy and Learning** at Ninth International Conference on Complex Systems (ICCS) 2018
- ❖ **Society of Young Network Scientists** (SYNS) first Symposium at NETSCI 2017
- ❖ Satellite **Nonlinear Dynamics in Chemical Systems** at CCS (Conference on Complex Systems) 2015
- ❖ Satellite of the Young Researchers Network on Complex Systems at CCS (Conference on Complex Systems), **2012 – 2015**
- ❖ 4th International Workshop on **Statistical Mechanics and Dynamical Systems**, 2014
- ❖ 4th PhD Summer School Conference on **Mathematical Modeling of Complex Systems**, 2014
- ❖ Workshop of the Young Researchers Network on Complex Systems, 2014

I have been a member of the following committees and boards:

Program Committees:

- ❖ Master's and Professional Doctorate Impact Symposium, Northeastern University (2025)
- ❖ IC2SMA2 2025: International Conference on Complex Systems Modeling, Analysis & Applications (2025)
- ❖ Program Committee and School Chair, Northeast Regional Conference on Complex Systems (NERCCS) (2018)
- ❖ Program Committee, International Conference on Complex Networks (CompleNet), Northeastern University (2018)
- ❖ Program Committee, Conference of Complex Systems (CCS) (2016)

Executive Committees & Boards:

- ❖ Executive Committee of the Complex Systems Society (12.2021 – 09.2024)
- ❖ Advisory Board of the Young Researchers Network of Complex Systems (10.2015 – 09.2016)
- ❖ Founding Chair of the Advisory Board of the Young Researchers Network on Complex Systems (10.2013 – 10.2015)

Councils:

- ❖ Council of the Complex Systems Society (12.2021 – 09.2024)
- ❖ Council of the Complex Systems Society (08.2012 – 10.2017)

ADDITIONAL SERVICE

- ❖ Content Editor Team of www.yrnscs.com (07.2012 – 09.2016)
- ❖ Volunteer, Researcher Night, Athens, Greece (2013)

ADDITIONAL RESEARCH EXPERIENCE

Boston College

09.2018 – 07.2020

Graduate Assistant, Boston College

The Thinking & Learning Lab, Lynch School of Education & Human Development

Advisors: Dr. Vasilyeva, Dr. Laski

Research Projects: a. Examining Teachers' use of Cognitive Learning Principles, b. Designing and Implementing a Mathematics Teaching Intervention

National and Kapodistrian University of Athens, Greece

12.2010 – 07.2015

PhD Fellow, National Center for Scientific Research “Demokritos”, Greece

National & Kapodistrian University of Athens

Advisors: Dr. A. Provata, Prof. F. Diakonou and Prof. D. J. Frantzeskakis

Worked on Synchronization Phenomena in Lattices of Coupled Oscillators. In particular: Multi-Chimera States in Populations Dynamics Networks with Hierarchical and Fractal Connectivity Matrix; Abstract Phase-space Networks Describing Reactive Dynamics; Effective Mean Field Approach to Kinetic Monte Carlo Simulations in Limit Cycle Dynamics with Reactive and Diffusive Rewiring

University of Massachusetts, Amherst

09.2006 – 05.2008

Master's student, University of Massachusetts, Amherst

Department of Mathematics & Statistics

Advisors: Prof. P. Kevrekidis, Prof. N. Whitaker

Research projects: a. Mathematical modeling of tumor growth; b. Bose-Einstein Condensation

WORKING PAPERS

- ❖ **E. Panagakou**, E. Laski, & N. J. Brown. Examining Mathematics Teaching Congruence with Cognitive Learning Strategies

PUBLICATIONS

- ❖ Arney C, Coronges K, Geiser M, MacDonald B, Mattsson C, **Panagakou E**, Price C, Szabo C, Ulman R. Judges' Commentary: The Influence of Music. UMAP Journal. 2021; 42(3):263-269. Available from: https://www.comap.com/UMAP/files/UMAP_42-3.pdf
- ❖ Arney C, Beecher A, **Panagakou E**. Authors' Commentary: Making Good Music by Writing a Top-40 Network Modeling Problem. UMAP Journal. 2021; 42(3):245-262. Available from: https://www.comap.com/UMAP/files/UMAP_42-3.pdf

- ❖ **E. Panagakou**, M. Giannini, D. Lazer, A. Vespignani, K. Coronges (2018). Evaluation of US's first Ph.D. Program in Network Science: Developing 21st century thinkers to meet the challenges of a globalized society. In C. B. Cramer, M. A. Porter, H. Sayama, L. Sheetz, & S. M. Uzzo (Eds.), *Network science in education: Transformational approaches in teaching and learning*. Cham: Springer International Publishing.
- ❖ C. Cramer, R. Gera, **E. Panagakou**, M. Porter, H. Sayama, L. Sheetz, M. Stella, S. Uzzo (Eds.) (2018). Proceedings of NetSciEd: The NetSci satellite on network science and education. doi: 10.31219/osf.io/7v9xt
- ❖ **E. Panagakou**, Y. Tyshchuk, C. Nattiel, D. S. Dalisay, K. Coronges (2017). Modeling Refugee Immigration Policies. In J. Belanger, R. Sturdivan, J. Libertini, A. Beecher, K. Coronges, T. Ge, J. Wang (Eds.), *Mathematical Modeling for the MCM/ICM Contests*. Vol. 3. Beijing: Higher Education Press
- ❖ J. Hizanidis, **E. Panagakou**, I. Omelchenko, E. Shöll, P. Hövel, A. Provata (2015). Chimera states in population dynamics: networks with fragmented and hierarchical connectivities. *Phys. Rev. E* (92, 012915)
- ❖ A. Provata, **E. Panagakou** (2014). Abstract phase-space networks describing reactive dynamics. *Physica A* (414, 15)
- ❖ **E. Panagakou**, G.C. Boulougouris, A. Provata (2013). Effective mean field approach to kinetic Monte Carlo simulations in limit cycle dynamics with reactive and diffusive rewiring. *Eur. Phys. J. B* (86, 277)

POSTERS

- ❖ **Panagakou, E.** (2024, April). Educational Development at the Network Science Institute: Professional Development and Experiential Learning. Poster at Conference for Advancing Evidence Based Learning (CAEBL), Northeastern University, 2024, Virtual.
- ❖ Wotkyns, W., Carter T., Kokernak, J.; Bolognese, J., **Panagakou, E**; Zold-Goldman, E. (2022, October). Self-described Communication Needs of CPS Learners, Poster at NEU CPS 2022 Faculty Development Conference "Changed Landscapes: (Re)engaging Our Learners, Faculty, Community, and Global Partners, Boston, MA.
- ❖ **Panagakou, E.**, Laski, E., & Brown, N., J., (2020, June 1 - September 1). Teaching practice is congruent with some cognitive learning principles more than others. Poster presented at 32nd APS Annual Convention Virtual Poster Showcase.
<https://www.psychologicalscience.org/conventions/2020-virtual-poster>
- ❖ **Panagakou E.**, Awal N. M., Epstein I. R., (2015, September). Synchronization Patterns in Reactive Dynamical Chemical Systems. Poster Presented at CCS'15, Arizona.
- ❖ **Panagakou E.**, Hizanidis J., Provata A. (2014, July). Synchronization Phenomena in Coupled Oscillators. Poster presented at the 4th Ph.D. Summer School - Conference on Mathematical Modeling of Complex Systems, Athens Greece.
- ❖ **Panagakou E.**, Boulougouris G. C., Provata A. (2012, September). Kinetic Monte Carlo Simulations of the Lattice Limit Cycle Model with Long Distance Interactions. Poster presented at ECCS'12, Brussels
- ❖ **Panagakou E.**, Kouvaris N., Provata A. (2011, September). Complex Reactive Dynamics. Poster presented at ECCS'11, Vienna

TALKS

Invited Talks

- ❖ Professional Presence for Impact
Guest Talk – AccelNet MultiNet NSF Fellows; virtual | 2025
- ❖ Building Your Professional Presence: Introductions, Networking, and Online Identity
Invited Professional Development Talk at the Session *NetSci Career Hub: A safe space for connecting, learning, and career growth* in Network Science at the NetSci 2024 conference | 2024
- ❖ Professional Communication - Cohesive Online Identity: The value in knowing how to present yourself
Guest Talk – AccelNet MultiNet NSF Fellows; virtual | 2024

- ❖ Curating a Coherent Online Identity
Guest Talk – AccelNet MultiNet NSF Fellows; virtual | 2023
- ❖ Cohesive Academic Identity: The value in knowing how to present yourself
Guest Talk – AccelNet MultiNet NSF Fellows; virtual | 2021
- ❖ Thinking Networks: Our perception of the world through Network Science
Guest talk- Math Modeling class; Data Science Master's program; Ramapo College (virtual) | 2021
- ❖ A Lattice Limit Cycle Model: Effective Mean Field and Kinetic Monte Carlo Simulations
BCCN-Nachwuchsgruppe: Nonlinear Dynamics and Control in Neuroscience, Technical University of (Berlin, Germany) | 2013

Contributing Talks at Conferences

- ❖ Professional Development and Experiential Learning at the Network Science Institute NetSciX conference (virtual) | 2024
- ❖ Preparing to Navigate the Crossroads: A Collaborative Approach to Professional Development for Network Science Doctoral Students and Postdocs (**Panagakou, E.** & Aines A.)
Graduate Career Consortium (GCC) Conference – Virtual | 2023
- ❖ Cognitive Science in Classrooms: Examining the Use of Cognitive Learning Strategies in Elementary Math (Laski, E & **Panagakou, E.**)
52nd Annual Meeting of the Northeastern Educational Research Association (NERA)- Using Data to Solve Education's Challenges - Virtual Meeting | 2021
- ❖ Chimera States in Population Dynamics: Networks with Fragmented and Hierarchical Connectivities
Conference on Complex Systems(CCS'15, Arizona, USA) | 2015
- ❖ Abstract Phase Space Networks Describing Reactive Dynamics
Conference on Complex Systems (CCS'15, Arizona, USA) | 2015
- ❖ Chimera States in Reactive Dynamical Systems
European Conference on Complex Systems (ECCS'14, Lucca, Italy) | 2014
- ❖ Long Distance Reactive Dynamics: Effective Mean Field Theory and Kinetic Monte Carlo Simulations
European Conference on Complex Systems (ECCS'13, Barcelona, Spain) | 2013
- ❖ Effective Mean Field Approach to Kinetic Monte Carlo Simulations in Limit Cycle Dynamics with Reactive and Diffusive Rewiring
Joint CRM-Imperial College School and Workshop in Complex Systems (Barcelona, Spain) | 2013
- ❖ Kinetic Monte Carlo Simulations of the Lattice Limit Cycle Model with Long Distance Interactions
Satellite "Young Researchers Network on Complex Systems Meeting" at European Conference on Complex Systems (ECCS'12, Brussels, Belgium) | 2012

Outreach Talks

- ❖ Introductory Video to Network Science
Presentation at the Network Science and Education (NetSciEd) Satellite at the NetSci 2024 conference | 2024
- ❖ Diversify your syllabus (Mistry, D. & **Panagakou, E.**)
Diversify NetSci & WiNS Satellite at NetSci Conference; online | 2022
- ❖ What is Network Science
Talk to high school students, American Junior Academy of Science's visit to Northeastern University | 2017

Departmental Talks

- ❖ Examining Teachers' use of Cognitive Learning Principles
Lynch School of Education and Human Development, Boston College | 2019
- ❖ Synchronization Phenomena in Lattices of Coupled Oscillators
Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece) | 2014
- ❖ An Extended Lattice Limit Cycle Model & an Effective Mean Field Approach
Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece) | 2013

- ❖ Limit Cycle Reaction - Diffusion Dynamics
Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece) | 2011
- ❖ Kinetic Monte Carlo Simulations in Reaction - Diffusion Systems
Institute of Nanoscience and Nanotechnology, National Center for Scientific Research (Athens, Greece) | 2011
- ❖ Modeling Tumor Growth
Department of Mathematics and Statistics, University of Massachusetts (Amherst, USA) | 2008

RESEARCH VISITS

- ❖ Visit to the Centre for Complexity and Design, Open University, UK | 01.24.2015 – 02.03.2015
- ❖ Visit to the Centre for Complexity and Design, Open University, UK | 08.11.2014 – 08.14.2014
- ❖ Visit to the lab BCCN - Nonlinear Dynamics and Control in Neuroscience, Technical University of Berlin, Germany | Oct 2013 – Nov 2013

SKILLS & TEACHING FOCUS

- ❖ College-Level Mathematics Instruction
- ❖ Quantitative Reasoning & Statistical Thinking
- ❖ Curriculum Design & Course Development
- ❖ Student-Centered & Active Learning Strategies
- ❖ Real-World Applications in STEM, Finance, & Healthcare
- ❖ Academic Advising & Student Mentoring
- ❖ Teaching Students from Diverse Backgrounds

TECHNICAL SKILLS

- ❖ **Programming & Analysis:** R, Python, MATLAB, SPSS
- ❖ **Scientific Tools:** Gephi, LaTeX
- ❖ **Learning Platforms:** Canvas, Blackboard, Perusall
- ❖ **Productivity Software:** Microsoft Office, Keynote, Wix, Slack, Asana
- ❖ **Operating Systems:** MacOS, Linux, Windows

PROFESSIONAL MEMBERSHIPS

- ❖ Professional and Organizational Development (POD) Network in Higher Education
- ❖ Society for Industrial and Applied Mathematics (SIAM)
- ❖ Complex Systems Society (CSS)
- ❖ Network Science Society (NSS)

RECENT PERSONAL PROFESSIONAL DEVELOPMENT

Trainings

- ❖ Brave Space: Partnering Students & Educators on Anti-racist Accountability, seven-session DEI training, NU CATLR & ODEI Inquiry Group, Fall 2023
- ❖ Led a NetSI team in the NU four-session reading group on Pedagogical Partnerships for Equity and Justice, NU CATLR, Fall 2021

Conferences

- ❖ Network Science Conference (NetSci) 2025, Netherlands
- ❖ Conference for Advancing Evidence Based Learning (CABL) 2025, Virtual
- ❖ Network Science Conference (NetSci) 2024, Canada

- ❖ Conference for Advancing Evidence Based Learning (CABL) 2024, Virtual
- ❖ NetSciX 2024, Virtual, Feb 2024 (Network Science Conference)
- ❖ Envisioning the Future: Developing Equitable Opportunities for Success - 48th Annual POD Network Conference (in-person) organized by the Professional and Organizational Development (POD) Network, Nov 2023 – Conference for teaching and learning university centers and for faculty
- ❖ New England Future Faculty Workshop 2023, Virtual, Aug 2023, ADVANCE Office of Faculty Development
- ❖ Navigating Career-Related Crossroads, GCC Annual Conference 2023, Virtual, June, 2023
- ❖ 2023 Conference for Advancing Evidence-Based Learning (CAEBL), Virtual, CATLR, May 2023
- ❖ Grad Futures Forum, Virtual, Princeton Grad Futures (office of Professional Development), Mar 2023
- ❖ NetSci 2022, Virtual, Jul 2022 (Network Science Conference)
- ❖ New England Future Faculty Workshop 2022, Virtual, ADVANCE Office of Faculty Development, Jul 2022
- ❖ 2022 Conference for Advancing Evidence-Based Learning (CAEBL), Virtual, CATLR, May 2022
- ❖ GCC New England & Eastern Canada Regional Meeting, Virtual, Mar 2022
- ❖ Networks 2021, Virtual, Jul 2021 (Network Science Conference)
- ❖ New England Future Faculty Workshop 2021, Virtual, ADVANCE Office of Faculty Development, Jul 2021
- ❖ Meeting the Moment: Re-evaluating and Re-inventing Career and Professional Development, GCC Annual Conference 2021, Virtual, Jun 2021

Seminars

Program assessment, Learning & Teaching

- ❖ Getting Started with Generative AI in Teaching, NU CATLR, June 11, 2025
- ❖ Building a Claude Project for Teaching & Learning, NU CATLR, May 27, 2025
- ❖ Leveraging Driving Questions to Motivate Learning, NU CATLR, Jan 28, 2025
- ❖ Having the Chat: Scaffolding The GenAI Conversation in Your Courses, NU CATLR, Jan 6, 2025
- ❖ Engaging Online Learners, NU CATLR, Nov 9, 2023,
- ❖ Solving Common Teaching Problems with Universal Design for Learning, NU CATLR, Oct 12, 2023,
- ❖ Active Learning for Skills-Based Teaching, NU CATLR, Sep 27, 2023,
- ❖ Aligning Your Assignments for Program Assessment in AEFIS, NU CATLR & Office of Institutional Assessment & Evaluation, Apr 4, 2022
- ❖ NUpath Assessment: Engaging Students in Analyzing & Using Data, NU CATLR & Office of Institutional Assessment & Evaluation, Mar 7, 2022
- ❖ Leveraging Driving Questions to Focus and Motivate Learning, NU CATLR, Mar 2, 2022
- ❖ Teaching at the Crossroads: Multidisciplinary Practices and Pedagogies, NU CATLR, Feb 11, 2022
- ❖ Programmatic Assessment Planning, NU CATLR & Office of Institutional Assessment & Evaluation, Feb 8, 2022
- ❖ Strategies and Tools for Teaching Large classes, NU CATLR, Nov 30, 2021,
- ❖ Engaging Online Learners, NU CATLR, Sep 21, 2021,

Career and professional development programming & advising for doctoral students and postdocs

- ❖ NIH K Award Series Session #1: Overview, NU Research Development, Feb 29, 2024
- ❖ NIH K Award Series Session #2: Mentoring, NU Research Development, Mar 27, 2024
- ❖ Establishing Research Programs in STEM: Project & Program Management, NU Advance Office of Faculty Development, Apr 3, 2023
- ❖ Doctoral CV to Resume, NU Employment Engagement & Career Design, Feb 23, 2023
- ❖ PhD: Wild Workshop, NU Employment Engagement & Career Design, Sep 27, 2022
- ❖ New IDP Assessment Toolkit (I3IDP), GCC Professional Development Committee, Feb 17, 2021

- ❖ Job Search Series: From CV to Resume, NU PhD Network & NU Employment Engagement & Career Design, Dec 10, 2021
- ❖ Academic Job Search Series: Academic Cover Letter, NU PhD Network & NU Writing Center, Aug 17, 2021,
- ❖ The NSF Graduate Research Fellowship Information Session and Workshop, NU Office of Undergraduate Research and Fellowships, Aug 17, 2021
- ❖ Writing Lab for Academic Job Market Materials, NU CATLR, Jul 13, 2021

Student Success

- ❖ Research Mentor Toolkit Workshops: Maintaining Effective Communication, NU ADVANCE, Mar 20, 2025
- ❖ An Asset-Based Approach to Working with International Students, NU CATLR, Jan 8, 2025
- ❖ Student-Centered Mentoring: Bridging the Gap Between Faculty and Students, National Center for Faculty Development and Diversity (NCFDD), Mar 19, 2024
- ❖ Flourishing as Researchers, NU ADVANCE Office of Faculty Development, Mar 29, 2023
- ❖ A conversation with Jessica Nordell, NU ADVANCE Office of Faculty Development, Mar 23, 2021
- ❖ Inclusion in Action with Jo Linda Johnson, Event by ELI, Inc, Mar 9, 2021
- ❖ Building Community: Setting Expectations and Addressing Microaggressions, NU CATLR, Jan 31, 2022
- ❖ Fostering Inclusivity with Interactive Lecture Techniques, NU CATLR, Sep 14, 2021

ADDITIONAL CERTIFICATES

- ❖ Project Management: Initiating & Planning Projects; Budgeting & Scheduling Projects; Managing Project Risks and Changes, University of California, Irvine | 2020 – Coursera Certifications Obtained
- ❖ Assessment for Learning in STEM Education, National Stem Learning Centre | 2016 – FutureLearn Certification Obtained
- ❖ Information and Telecommunication Technologies – Eight courses, Athens Information Technology | Sep 2008 – May 2009, Certification obtained

LANGUAGE SKILLS

- ❖ Greek – Native Speaker
- ❖ English – Fluent | Michigan Proficiency (ECPE), Advanced Proficiency Certificate in English (Oxford U)
- ❖ French – Good | DELF 1 (A1, A2, A3, A4) Institut Français de Grèce (ATHÈNES)
- ❖ Italian – Good

EXTRACURRICULAR ACTIVITIES

- ❖ Honorary Member in the Executive Committee of the Athletic Chess Club “Aigli Papagou” Athens, Greece | 03.2024 – present
- ❖ Member of the Athletic Chess Club “Aigli Papagou”, Athens, Greece | 01.1996 – present
- ❖ Member of the Cultural Committee of Maliotis Cultural Center, designing STEM and other activities for children | 01.2018 – 03.2020
- ❖ Member of the Executive Committee of the Athletic Chess Club “Aigli Papagou” Athens, Greece | 01.2011 – 01.2024
- ❖ Member of the Junior National Greek Chess Team | 01.1994 – 12.1995

REFERENCES

- ❖ **Prof. T. Eliassi-Rad**, Professor & The Inaugural Joseph E. Aoun Chair; Khoury College of Computer Sciences, Network Science Institute, Northeastern University
Email: tina@eliassi.org
Phone: 510.299.8700
Location: 1023 - 177 (177 Huntington Ave), Boston, MA 02115

- ❖ **Prof. A. Vespignani**, Director - Network Science Institute; Director - MOBS Lab; Sternberg Family Distinguished Professor Physics, Bouvé College of Health Sciences, College of Computer and Information Science, Northeastern University
Email: a.vespignani@northeastern.edu
Phone: 617.373.7367
Location: 1010 - 177 (177 Huntington Ave), Boston, MA 02115

- ❖ **Prof. M. Vasilyeva**, Associate Professor, Counseling, Developmental, and Educational Psychology, Lynch School of Education and Human Development, Boston College
Email: marina.vasilyeva@bc.edu
Phone: 617.552.1755
Location: Champion Hall Room 239D, Chestnut Hill, MA, 02467

- ❖ **Dr. Kathryn Coronges**, Executive Director – Network Science Institute, Northeastern University
Email: k.coronges@northeastern.edu
Phone: 323.356.4492
Location: 1009 - 177 (177 Huntington Ave), Boston, MA 02115

- ❖ **Prof. Dima Krioukov**, Professor; College of Science; Network Science Institute, Northeastern University
Email: d.krioukov@northeastern.edu
Phone: 617.373.2934
Location: 210-177(177 Huntington Ave), Boston, MA 02115

- ❖ **Prof. A. Beecher**, Professor of Mathematics, MS in Applied Mathematics Program Director, Ramapo College of New Jersey
Email: abeecher@ramapo.edu
Phone: 201.684.7159
Location: G-128H (Building G, Suite 128, Room H), 505 Ramapo Valley Road, Mahwah, NJ 07430