

SGH

Warsaw School
of Economics



19th Mathematical & Statistical Modeling of Complex Systems Workshop

**WORKSHOP ON QUANTITATIVE AND QUALITATIVE
RESEARCH METHODS - FOCUS ON HEALTH
ECONOMICS**

SGH Warsaw School of Economics & Northeastern Illinois University in Chicago

17 – 19 May 2022

15:15 – 19:30 CET

8:15 – 12:30 CST

Venue: “HYBRID”

SGH, building C Al. Niepodległości 128, Auditorium 3B

& On-line

Registration at: <https://forms.office.com/r/bKj3hs4NMc>

The project is financed by the Polish National Agency for Academic Exchange (NAWA).



**POLISH NATIONAL AGENCY
FOR ACADEMIC EXCHANGE**

Agenda (draft 30/04/2022)

Day I – Tuesday, May 17, 2022

15:15 – 15:45 CEST **Registration & welcome coffee**

15:45 – 16:00 CEST
(8:45 – 9:00 CDT) **Opening addresses**

Prof. Marzenna Anna Weresa

Director of World Economy Research Institute
SGH Warsaw School of Economics, Poland

Prof. Lidia Filus

Chair of Mathematics
Northeastern Illinois University in Chicago, USA

Prof. Christina Ciecierski

Department of Economics
Northeastern Illinois University in Chicago, USA

Session I

Chair: Marzenna Anna Weresa, PhD, SGH, Poland

16:00 – 16:45 CEST (9:00 – 9:45 CDT)

A Mathematical Model of Oscillatory Effects during Experimental Tumor Growth - Mirveta Ajredini and Emma Turian, NEIU, USA

16:45 – 17:30 CEST (9:45 – 10:30 CDT)

Fluid Mechanics versus Empirically Derived Equations: A Model Comparison of Tumor Dynamics for Avascular Tumors - Isaiah Thomas, Russell Injerd, and Emma Turian, NEIU, USA

17:30 – 18:15 CEST (10:30 – 11:15 CDT)

Polish-U.S. Sectoral Trade Balances: Regime Shifts and the Nonlinear Impact of Currency Fluctuations - Izabela Pruchnicka-Grabias, SGH, Iwona Piekunko-Mantiuk, Bialystok University of Technology and Scott Hegerty, NEIU, USA

18:15 – 19:00 CEST (11:15 – 12:00 CDT)

Socio-economic determinants of mental health status of employees in the EU countries. A comparative analysis - Dawid Majcherek, Małgorzata Lewandowska, and Arkadiusz Kowalski, SGH Warsaw School of Economics, Poland

19:00 – 20:00 CEST Buffet dinner & networking

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Day II – Wednesday, May 18, 2022

Session II

Chair: Christina Ciecierski, PhD, NEIU, USA

16:00 – 16:45 CEST (9:00 – 9:45 CDT)

Ecotherapy Promotes Responsible Environmental Behavior: the Example of Skyros Project - Constantina Skanavis, School of Public Health, University of West Attica, Greece

16:45 – 17:30 CEST (9:45 – 10:30 CDT)

Survival in Patients with Parkinson's Disease After Deep Brain Stimulation or Medical Management – Beverly Gonzalez, NEIU, USA

17:30 – 18:00 CEST (10:30 – 11:00 CDT) Tea & Coffee break

18:00 – 18:45 CEST (11:00 – 11:45 CDT)

Strategies for Developing Statistics, Analytics and Data Science Resources in an Academic Center for Health Research - Christina Ciecierski, and Lidia Filus, NEIU, USA

18:45 – 19:30 CEST (11:45 – 12:30 CDT)

Training the Next Generation of Cancer Researchers: Designing a Logic Model to Drive Evaluation of the Chicago Cancer Health Equity Collaborative – Susan Ryan, NEIU, USA

Day III – Thursday, May 19, 2022

Session III

Chair: Lidia Filus, PhD, NEIU, USA

16:00 – 16:45 CEST (9:00 – 9:45 CDT)

Chicago structural violence and its effects on predicting colorectal adenoma in patients receiving colonoscopy, Nabil Kahouadji, NEIU

16:45 – 17:30 CEST (9:45 – 10:30 CDT)

Are Rents Excessive in the Central City?: A Geospatial Analysis - Scott W. Hegerty, NEIU, USA

17:30 – 18:15 CEST (10:30 – 11:15 CDT)

Export Patterns in Medical Products in the Times of the Covid-19 Pandemic. Focus on Pharmaceuticals - Marzenna Anna Weresa, SGH, Poland

18:15 – 18:30 CEST (12:15 – 12:30 CDT)

Concluding remarks & conference closing

Lidia Filus, Cristina Ciecierski, NEIU, USA and Marzenna Anna Weresa, SGH, Poland

18:30 – 19:00 CEST Farewell Tea & Coffee

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