

# Irina B. Panovska

School of Economic, Political, and Policy Sciences  
University of Texas at Dallas  
800 W. Campbell Road, GR 31  
Richardson, TX 75080

Phone +1 972-883-6247  
Office : GR 2.531  
Email: [Irina.Panovska@utdallas.edu](mailto:Irina.Panovska@utdallas.edu)  
Web: [www.irinapanovska.com](http://www.irinapanovska.com)

**Brief Bio:** My research interests focus on modeling the macroeconomy, in particular the responses of the economy to different policy actions, and on the speed and duration of economic recoveries. The second stream of my research is methodological and focuses on identifying the trend and cyclical movements that define the state of the economy. I teach undergraduate and graduate courses in macroeconomics and forecasting.

**Keywords/ Expertise for Media:** recessions and recoveries (prediction, recession risk, speed of recovery, policy and policy responses), macroeconomic policy, macroeconomic conditions (GDP, inflation, unemployment, employment)

## Employment and Academic Positions

Associate Professor of Economics August 2019-present  
School of Economic, Political, and Policy Sciences  
University of Texas at Dallas, Richardson, TX

Frank Hook Assistant Professor of Economics August 2017-July 2019  
Lehigh University, Bethlehem, PA

Assistant Professor of Economics August 2013-July 2019  
Lehigh University, Bethlehem, PA

Visiting Scholar July-August 2017, May-June 2016 December 2015,  
University of New South Wales, Sydney, Australia May-June 2014

Visiting Scholar June 2023, June 2022, June 2021 (virtual), June 2018  
Faculty of Economics and Business University of Zagreb,  
Zagreb, Croatia

Visiting Professor Academic year 2023-2024, 2024-2025. Visit May-June  
Faculty of Economics and Business University of Zagreb, 2024  
Zagreb, Croatia

## Education

Ph.D., Economics, Washington University, St. Louis, MO May 2013  
M.A., Economics, Washington University, St. Louis, MO May 2009  
B.A., Economics & B.S., Mathematics, Minor in German Language and Literature,  
Ohio University, Athens, OH June 2007

**Fields of Specialization:** Macroeconomics, Business Cycles, Econometrics, Time Series Analysis

## Publications

### Macroeconomics Publications

1. Arcabic, V., I. Panovska, and J. Tica (2024) "[Business Cycle Synchronization and Asymmetry in the European Union](#)" *Economic Modelling* Volume 139 (October 2024), Article 106811.
2. Panovska, I. and L. Zhang\* (2024) "[Jobless Recoveries and Time Variation in Labor Markets.](#)" *Journal of Macroeconomics* Volume 81 (September 2024), Article 103623.

Web: [www.irinapanovska.com](http://www.irinapanovska.com)

Email: [Irina.Panovska@utdallas.edu](mailto:Irina.Panovska@utdallas.edu)

Last Update: January 8<sup>th</sup> 2025

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3. Panovska, I. and E. Wemy (2024) "[Output Measurement and Investment-Specific Technological Shocks in Business Cycles](#)" *Applied Economics* 56(9), Pages 5845-5862.
4. Panovska, I. and S. Ramamurthy (2022) "[Decomposing the Output Gap with Inflation Learning](#)" *Journal of Economic Dynamics and Control* 136, Article Number 104327.
5. Donayre, L. and I. Panovska (2021) "[Recession-Specific Recoveries: Ls, Us, and Everything in Between](#)" *Economics Letters* Volume 209 (December 2021), Article Number 110145.
6. Fazzari, S., J. Morley, and I. Panovska (2021) "[When Is Discretionary Fiscal Policy Effective?](#)" *Studies in Nonlinear Dynamics and Econometrics* Volume 25(4), Pages 229-254.
7. Aslim, E. G\*, A.M. Tas, and I. Panovska (2021) "[Macroeconomic Effects of Maternity Leave Legislation in Emerging Economies](#)" *Economic Modelling* Volume 100, 105497.
8. Elroukh, A\*, A. Nikolsko-Rzhevskyy and I. Panovska (2020) "[A Look at Jobless Recoveries in G7 Countries](#)" *Journal of Macroeconomics* Vol. 64, Article 103206.
9. McInish, T., Nikolsko-Rzhevskyy, O., A. Nikolsko-Rzhevskyy and I. Panovska (2020) "[Fast and Slow Cancellations and Trader Behavior](#)" *Financial Management* Volume 49(4) Pages 973-996.
10. Morley, J. and I. Panovska (2020) "[Is Business Cycle Asymmetry Intrinsic in Industrialized Economies?](#)" *Macroeconomic Dynamics* 24(6), Pages 1403-1436.
11. Donayre, L. and I. Panovska (2018) "[U.S. Wage Growth and Nonlinearities: The Roles of Unemployment and Inflation](#)" *Economic Modelling* Volume 68, Pages 273-292.
12. Panovska, I. (2017) "[What Explains the Recent Jobless Recoveries?](#)" *Macroeconomic Dynamics* Volume 21(3), Pages 708-732.
13. Morley, J., I. Panovska, and T. Sinclair. (2017) "[Testing Stationarity with Unobserved Components Models.](#)" *Macroeconomic Dynamics* Volume 21(1), Pages 160-182.
14. Donayre, L. and I. Panovska (2016) "[State-dependent Exchange Rate Pass-through Behavior](#)" *Journal of International Money and Finance* Volume 64, Pages 170-195.
15. Donayre, L. and I. Panovska (2016) "[Nonlinearities in the U.S. Wage Phillips Curve.](#)" *Journal of Macroeconomics* Volume 48, Pages 19-43.
16. Fazzari, S., J. Morley, and I. Panovska (2015) "[State-Dependent Effects of Fiscal Policy.](#)" *Studies in Nonlinear Dynamics and Econometrics* Volume 19(3), Pages 285-315.

### Interdisciplinary Publications

17. Dey, A.K.\* (University of Texas El Paso Statistics), T. Haq (Lamar University Statistics), K. Das (University of Louisiana at Lafayette), and I. Panovska (2022) "[Quantifying the Impact of Covid-19 on the US stock market: An Analysis from Multi Source Information](#)" *PhysicaA* Volume 589, Article Number 126423.
18. Grivcheva-Panovska, V. (School of Medicine, University Saints Cyril and Methodius), T. Craig (Department of Medicine, Penn State University), H. Longhurst (Department of Immunology, University of Auckland), N. Bara (Hereditary Angioedema Expertise Centre, Sangeorgiu de Mure), and I. Panovska (2022) "[Global Perceptions of the Current and Future Impact of COVID-19 on Hereditary Angioedema Management.](#)" *Allergy and Asthma Proceedings*, Volume 43(1) (January 2022).

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19. C. Meyerhoefer (Lehigh University Economics), I. Panovska, and R. Manski (University of Maryland School of Dentistry) (2016) [“Projections of Dental Care Use Through 2026: Preventative Care to Increase While Treatment will Decline.”](#) *Health Affairs (December 2016)* Volume 35, Pages 2183-2189.

## Working Papers

1. Morley, J., C.R. Nelson and I. Panovska (2024) “Weak Identification, the Pile-Up Problem, and Finite-Sample Inference for ARMA Models.”
2. Prajyna Barua Soni\*, Azharul Islam\*, Irina Panovska, and Srikanth Ramamurthy (2024). “Estimated Output Gap in a Wage-Inflation Expectations Model.”
3. Jose Barrales Ruiz, Azharul Islam\*, Mikidadu Mohammed and Irina Panovska (2024) “Quantifying the Inflation Expectations Passthrough over the Inflation Distribution.”
4. Luigi Donayre and Irina Panovska (2024) “The Speed of State-Level Recoveries.”

\* Denotes current or former PhD student or postdoctoral researcher

## Conference and Seminar Presentations

**2025:** (scheduled) *Society for Nonlinear Dynamics and Econometrics*

**2024:** Southern Economic Association, Midwest Econometrics Group, Society for Economic Measurement, University of Zagreb, University of North Texas, Society for Nonlinear Dynamics and Econometrics, University of Marburg

**2023:** Computational and Financial Econometrics Conference, Southern Economic Association, Midwest Econometrics Group, Texas State Macroeconomics Seminar, Croatian National Bank, The Institute of Economics Zagreb, Society for Nonlinear Dynamics and Econometrics

**2022:** Computational and Financial Econometrics Conference, Southern Economic Association Meeting, Midwest Econometrics Group, Western Economic Association Meeting, University of Zagreb Workshop on Business Cycles, Society for Nonlinear Dynamics and Econometrics

**2021:** Computational and Financial Econometrics Conference, Southern Economic Association, University of Arkansas, University of Houston, Western Economic Association International Conference, Society for Computational Economics and Finance (CEF)

**2020:** University of North Texas, Society for Nonlinear Dynamics and Econometrics, MERG Annual Meeting (*Presentations originally scheduled March-May 2020, but cancelled due to COVID*) *Federal Reserve Board of Governors, Bureau of Economic Analysis, Monash University, University of Melbourne*

**2019:** Southern Economic Association (Organized Session on Empirical Macroeconomics), Clark University, Midwest Econometrics Group, Society for Nonlinear Dynamics and Econometrics, Eastern Economic Association (organized session on the Macroeconomic Effects of Fiscal Policy)

**2018:** University of Texas Dallas, Southern Economic Association (organized session on Macroeconomic Policy and Welfare), Midwest Econometrics Group Meeting, International Association for Applied Econometrics, University of Zagreb, Society for Nonlinear Dynamics and Econometrics, University of Wisconsin Whitewater

**2017:** Southern Economic Association (organized session on Business Cycles), Federal Reserve Bank of Philadelphia, University of Sydney Macro Reading Group, Society for Computational Economics and Finance, NBER/ NSF Seminar on Bayesian Inference in Economics and Statistics, Society for Nonlinear Dynamics and Econometrics, Bureau of Economic Analysis

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**2016:** Southern Economic Association, Lafayette College, Midwest Econometrics Group, Society for Computational Economics and Finance, Econometric Society North American Summer Meeting, Reserve Bank of New Zealand, Monash University, Society for Nonlinear Dynamics and Econometrics, Midwest Economics Association

**2015:** Southern Economic Association, Midwest Econometrics Group, Society for Computational Economics and Finance, Canadian Economic Association Meeting, NBER/ NSF Seminar on Bayesian Inference in Econometrics and Statistics, Virginia Commonwealth University, Society for Nonlinear Dynamics and Econometrics, Lafayette College

**2014:** Midwest Econometrics Group, Society for Computational Economics and Finance, University of Queensland, Reserve Bank of New Zealand, Monash University, University of Auckland, Society for Nonlinear Dynamics and Econometrics, CSWEP Mentoring Workshop- AEA Meeting (workshop program participant)

**2013:** Midwest Econometrics Group, NBER-NSF Time Series Conference, Western Economic Association Meeting, NSF NBER Seminar on Bayesian Inference in Econometrics and Statistics, Society for Nonlinear Dynamics and Econometrics, International Monetary Fund, Bank of Canada, West Virginia University, Georgia State University, University of Illinois Urbana-Champaign, Lehigh University, Miami University

**2012:** North Dakota State University, Southern Economic Association Conference, Washington University Graduate Student Conference, Midwest Econometrics Group, Society for Computational Economics and Finance, Canadian Economic Association Meeting, Ohio University Seminar Series, Society for Nonlinear Dynamics and Econometrics Conference

**2011:** European Central Bank EC2 Conference, Washington University Graduate Student Conference, Midwest Econometrics Group Meeting, Computational Economics and Finance

## Professional Service and Conference Organization:

- Editorial Board Ekonomski Pregled: November 2022-present
- Co-organizer North Texas Economics Workshop, November 2024 (Local host University of North Texas, Denton, TX)
- Scientific Committee Member Economic Meetings, November 2024 (Conference organized by the Croatian Economic Society)
- Executive Committee Society for Nonlinear Dynamics and Econometrics (elected, 2017-2024), Treasurer: July 2019-2024
- Senior Mentor, Mentoring Workshop for Junior Female Economists at the Midwest Econometrics Group Conference: October 2019, October 2022, October 2023, November 2024
- Senior Faculty Discussant Graduate Student Sessions in Macroeconomics, Southern Economic Association Conference, November 2024
- Organizing committee: Society for Nonlinear Dynamics and Econometrics 26<sup>th</sup>, 24<sup>th</sup> and 23<sup>rd</sup> Annual Symposium
- Session organizer Southern Economic Association (2016), Society for Economic Measurement (2024)
- Reviewer for: Journal of Money, Credit & Banking (x3), Journal of Business and Economic Statistics (x2), Review of Economics and Statistics (x4), American Economic Journal: Macroeconomics (x3), Macroeconomic Dynamics (x6), Economic Inquiry (x2), Studies in Nonlinear Dynamics and Econometrics (x 6), Journal of Macroeconomics (x 5), Empirical Economics (x2), IZA Journal of Labor Policy, Economic Modelling (x5), Journal of Economic Dynamics and Control (x 9), Contemporary Economic Policy, North American Journal of Economics and Finance, Journal of Economics and Business, Southern Economic Journal (x 2), Structural Change and Economic Dynamics, Japanese Economic Review, Economics Letters (x 2), Journal of International Money and Finance (x

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5) , Economics Bulletin, Applied Economics (x2), Economic Inquiry (x2), Economic Record, Journal of Business Cycle Research (x3), Journal of Economic Studies, Applied Economics Letters, International Journal of Forecasting, Journal of Applied Econometrics, Empirica, Eastern Economics Journal

## Advising

- PhD:

Chair:

- Prajyna Barua Soni, Economics, University of Texas at Dallas (chair, expected graduation date Spring 2026)
- Azharul Islam, Economics, University of Texas at Dallas (chair, expected graduation date spring 2025)
- Licheng Zhang, Economics, University of Texas at Dallas (chair, graduation date August 2021), First placement: Southern University of Science and Technology.
- Ahmed Elroukh, Economics, Lehigh University (co-chair with Alex Nikolsko-Rzhevskyy, graduation date May 2020), First placement: DePauw University Tenure-Track Assistant Professor in Economics

Committee Member:

- Yundi Lu, Economics, University of Texas at Dallas (dissertation adviser Victor Valcarcel, expected graduation date Spring 2025)
- Jihun Kwak, Economics, University of Texas at Dallas (dissertation adviser Donggyu Sul, graduation date December 2021). First placement: Postdoctoral Research Fellow Hanyang University
- Luis Fernando Colunga Ramos, Economics, University of Texas at Dallas (dissertation advisor Victor Valcarcel, graduation date May 2021). First placement: Bank of Mexico
- Adam Biener, Economics, Lehigh University (dissertation adviser Chad Meyerhoefer, graduation date May 2015) First Placement: U.S. Agency for Healthcare Research and Quality (2015-2018), Lafayette College Assistant Professor 2018-present

- MS:

- Sami Gabriel Saleh, International Political Economy Dual Degree University of Texas at Dallas and Marburg University (chair, graduation date May 2024)
- Madison White, Economics, Lehigh University (chair, graduation date May 2018), first placement: Federal Reserve Board of Governors (2018-2020), Columbia Law School

## Teaching Experience

### University of Texas at Dallas

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| • Economics 6302: Macroeconomics Theory, Graduate (PhD)                        | Fall semester 2019-present   |
| • Economics 4385/ 5397 Business and Economic Forecasting, Undergraduate and MS | Spring semester 2020-present   |
| • Econ 4396 Contemporary Macroeconomic Policy                                  | Fall semester 2021-present   |
|  | Virtual Exchange/ Class Collaboration with University of Marburg Fall 2023, 2024 |
| • Econ 3311: Intermediate Macroeconomic Theory                                 | Spring 2022, 2024  |
| • Economics 7391: Special Topics in Economics, Business Cycles (PhD)           | Fall 2020, Spring 2023   |

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## Classes taught at Other Institutions

### Lehigh University

- Economics 201: Federal Reserve Challenge, Undergraduate Fall 2018
- Economics 460/360: Time Series Analysis (Macroeconometrics), Undergraduate and MS Graduate (Spring Semester) Spring 2016-2019
- Economics 029: Money, Banking, and Financial Markets, 1<sup>st</sup> year undergraduate core class Spring 2014-2019
- Economics 365: Business, Government, and Macroeconomic Policy, Undergraduate economics majors and MS graduate (Fall Semester) Fall 2013-2018
- Economics 418: Advanced Topics in Macroeconomics (co-taught), PhD graduate field class (Spring Semester) Spring 2018

### Washington University in St. Louis

- Economics 508B: Statistics Review for PhD students in Economics Summer 2009-2012

### Graduate Teaching Assistant, Washington University in St. Louis

- Economics 104: Introductory Macroeconomics, Prof. Steven Fazzari Spring 2011
- Economics 512: Quantitative Methods (Core Class for PhD Students, Prof. Sebastian Galiani) Fall 2010

## Membership

Econometric Society, Society for Nonlinear Dynamics and Econometrics, Society for Economic Measurement, Southern Economic Association, Society for Computational Economics and Finance, International Association for Applied Econometrics, Southern Economic Association, Phi Beta Kappa

## Awards

School of Economic, Political, and Policy Sciences at UT Dallas Academic Year 2022-2023  
Excellence in Undergraduate Teaching Award

NFRS Grant (PI), co-PI Yulia Gel, Mathematics, UTD \$25,000 July 2020-July 2021

Frank Hook Assistant Professorship for Excellence in Teaching and Mentoring (Endowed Position), Lehigh University 2017-2019

Mentorship Appreciation Award, Graduate Student Senate, Lehigh University Fall 2018

Peller Research Grant, Lehigh University (Co-PI with Alex Nikolsko-Rzhevskyy) Summer 2015

Olin Fellowship, Washington University in St. Louis August 2007-May 2013

Phi Beta Kappa Outstanding GPA award, Ohio University May 2006

Cutler Manasseh Scholarship, Ohio University September 2003-June 2007



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## University Service

**At the Program (Department) Level, University of Texas at Dallas:** PhD Qualifying Exam in Macroeconomics Committee (Fall 2019-present), Standing Committee for Hiring Part-time Lecturers (Fall 2023- present), Chair Mid-Probationary Committee (x 2 faculty members Fall 2024), Member Mid-Probationary Committee (x 2 faculty members Fall 2024), Search Committee International Macroeconomics Position (Academic Year 2021-2022), Search Committee Microeconomics Position (December 2020-February 2021), Ad hoc Promotion and Tenure Committee Microeconomics Position (February 2021), Omicron Delta Epsilon Economics Honors Society Faculty Speaker (April 2023)

**At the College Level, School of Economic, Policy, and Political Sciences, University of Texas at Dallas:** Dean's Faculty Advisory Committee (Fall 2022-present), Member Search Committee International Political Economics Position (Political Science Search, December 2020-February 2021), Promotion Review of Non-Tenure System Faculty Committee (Spring 2020), External Chairperson Examining Committee for PhD Defense: Sungil Han (PhD Criminology, July 2020), Tian Hang (PhD in Public Policy and Political Economy, June 2021), Youngseok Yoon (Public and Nonprofit Management, Fall 2024)

**At the University Level , University of Texas at Dallas:** Vice Chair, University Faculty Mentoring Committee for Junior Faculty AY 2024-2025 (Member Fall 2023-present), 5year SACSCOC Reaccreditation Committee ( Member Spring 2022-present), Virtual Exchange Collaborative Online International Learning Faculty Showcase Speaker (April 2024), Invited Speaker Panel on Research and Publication Strategies UTD Faculty Mentoring Workshop (October 2022), Midterm Probationary Committee (Fall 2022), Committee on Effective Teaching (Fall 2021-present), Committee on Library (Fall 2021-present), Presenter: Center for Teaching and Learning Workshop: Lessons from Covid Teaching (March 2021), Roundtable Faculty Discussant Hobson Wildenthal Honors College (February 2020)

**Service at Previous Institutions: Department of Economics, Lehigh University:** Search committee for macroeconomics or health position (2017-2018 AY), Eli Schwartz, Undergraduate Research Essay Contest Committee (Spring 2016-Spring 2019), Undergraduate Research Committee (Fall 2014-Spring 2019), Ad hoc PhD Admissions Committee for PhD applicants in Macroeconomics (Fall 2015-Fall 2017), Lehigh Life Days Participant (2015), Economics Department Representative for the College of Business and Economics Majors Fair (Spring 2014, Fall 2016), Economics Department Representative for the Senior Open House Program (Fall 2013), Organized "Career Prospects for Economics Majors" Talks (2014, 2016, 2018), Macroeconomics PhD Field Exam Committee (Summer 2018), **College of Business and Economics, Lehigh University:** Tauck Study Abroad Award Committee (Fall 2017-Spring 2019), Peller Undergraduate Research Grant Committee (Fall 2014-Spring 2019), College of Business and Economics Building Committee Economics Department Representative (February-March 2017), Lehigh Candidate's Day (April 2017), College of Business and Economics Global Steering Committee (Fall 2015-Spring 2016), **Lehigh University University Level Service:** University Committee on Discipline and Student Conduct (Spring 2017-Spring 2019), 5 x 10 New Student Orientation Symposium (Fall 2017), College of Business Liaison for Library and Technology Services (Fall 2013-Spring 2019), College of Business and Economics Representative Faculty Panel Speaker for New Faculty Orientation (August 2014, August 2015), Lehigh University VIEW Program Class Observation Participant (Fall 2013-Spring 2019)

## Media Appearances and Community Speaking Engagements

CREW Women in Commercial Real Estate Industry Luncheon Keynote Speaker, "The State of the Economy", August 21<sup>st</sup> 2024

Independent Broker Alliance/ North Texas Association of Commercial Realtors Guest Speaker on the State of the Economy, November 9<sup>th</sup> 2023

CREW Women in Commercial Real Estate Industry Luncheon Keynote Speaker, "Where are we now? An Economic Snapshot", July 19<sup>th</sup> 2023

Yelp Corporate Executive Summit, Macroeconomic Trends, February 23<sup>rd</sup> 2023

Addison Rotary Club Speaker, Effects of Inflation on the Economy, October 7<sup>th</sup> 2022

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Catalyst Corporate Credit Union Economics and Payments Forum, September 19<sup>th</sup> 2022

Good Morning Texas, Morning Segment Speaker, Probability of Recession, August 30<sup>th</sup> 2020

Plano Sunrise Rotary Club: Guest Speaker, Effects of Inflation on the Economy, July 15<sup>th</sup> 2022

Nacional.hr (Croatian Weekly Independent News Magazine): Interview for Business-to-Business Special Feature on Global Economic Conditions, July 8<sup>th</sup> 2022

Article "A Look at Jobless Recoveries in G7 Countries", August 25<sup>th</sup> 2020, featured in the UT Dallas Magazine

Article "Projections of Dental Care Use through 2026: Preventative Care to Increase While Treatment Will Decline", December 19<sup>th</sup> 2016, featured on the Hill

**Other Relevant Information** Citizenship: United States, North Macedonia. Languages: English, Macedonian. Other Languages: German intermediate/ advanced (B2/C1), Spanish Intermediate (B1/B2)