ANTON KORINEK

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Webpage: <u>http://www.korinek.com</u>

Academic Positions and Affiliations:

- Professor (2021 –), Associate Professor (2018 2021), Department of Economics and Darden School of Business, University of Virginia
- Faculty Director (2025), Economics of Transformative AI (EconTAI) Initiative, University of Virginia
- Visiting Fellow (2024/25), Nonresident Fellow (2023/24), Rubenstein Fellow (2021 2023), The Brookings Institution

Anthropic Economic Advisory Council (2025 –)

CEPR, Research Fellow (2019 –), Leader of Research and Policy Network on AI (2024 –)

NBER, Faculty Research Fellow (2012 – 2018), Research Associate (2018 –)

Stanford Digital Economy Lab, Fellow (2024 –)

SUERF, Fellow (2025 -)

Assistant Professor, Department of Economics, Johns Hopkins University, 2013 – 2018 Assistant Professor, Department of Economics, University of Maryland, 2007 – 2013

Education:

Ph.D. in Economics (with distinction), Columbia University, 2007
Dissertation: Dollar Borrowing in Emerging Markets
Committee: Joseph E. Stiglitz (sponsor), Patrick Bolton, Donald Davis, Robert Hodrick, David Weinstein
Master in Economics (with distinction), University of Vienna, 2000
Thesis: Asymmetries in the European Monetary Transmission Mechanism
Supervisor: Baron Alexandre Lamfalussy

Cand. iur. in Law, University of Vienna, 1997

Professional Activities:

Senior Researcher (2024/25), Complexity Science Hub (CSH) Vienna IMF Independent Evaluation Office, Consultant (2019/20, 2024/25) IMF ICD, Lecturer (2021, 2023, 2025), Consultant (2024) Member, G7 High-Level Panel of Experts on AI (2024) Associate Editor, Journal of Monetary Economics (2020 –) Bank for International Settlements, Visiting Scholar (2012), Research Fellow (2016, 2024) Bank of Finland, Research Fellow (2024 –)

Swiss National Bank, Visiting Scholar and Lecturer (2024) Editor, Oxford Handbook of AI Governance (2021 - 2024) Centre for the Governance of AI, Oxford, Economics of AI Lead (2021 - 2024)Senior Advisor and Member of Steering Committee, SPI, Partnership on AI (2020 – 2023) NSF Economics Advisory Panel (2019, 2021, 2022) Editorial Board Member, Covid Economics (2020 – 2021) Member, UVA Global Infectious Diseases Institute (2020 –) Steering Committee, UVA Human Machine Intelligence Group (2019 –) Founding Member, Economics for Inclusive Prosperity, econfip.org (2019 –) Associate Editor, Journal of International Economics (2017 – 2020) Harvard, Visiting Scholar (Spring 2012, May 2016) Vienna Graduate School of Economics, Visiting Scholar and Lecturer (Dec. 2015) FRB Minneapolis, Visiting Scholar (Sept. 2014) INET, Co-chair of Working Group on Macroeconomic Externalities (2012 – 2023) IMF Research Department, Visiting Scholar (2011, 2014), Resident Scholar (2013 – 2014) Bundesbank, Visiting Scholar and Lecturer (2012, 2025) World Bank Research Department, Visiting Scholar (2004, 2008/09, 2011 – 2014) CEU, Budapest, Visiting Scholar and Lecturer (2011) Brooks World Poverty Institute, Manchester, Visiting Scholar (2007 – 2010) Committee on Global Thought, Columbia University, Fellow (2006 – 2007) Initiative for Policy Dialogue (IPD), Columbia University, Consultant (2002 – 2007) Austrian Central Bank (OeNB), Consultant (2001) Epicon Investment AG, Austria, Intern (1998), Head of IT Department (1999 – 2001)

Honors and Awards:

FLI Grant for the Economics of Transformative AI (2025) Vox's 2024 Future Perfect 50 List (2024) David M. Rubenstein Fellowship, The Brookings Institution (2021 – 2023) Longview Philanthropy Grant (2022/23) Hewlett Foundation Grant (2021 - 2023)Centre for Effective Altruism Long-Term Future Fund Grant (2021/22) CIGS/Institute for New Economic Thinking Grant (2021/22) Batten Faculty Fellow, Batten Institute, Darden School of Business (2020 – 2022) Bankard Fund for Political Economy, Research Award (2020/21, 2021/22, 2024/25) Institute for New Economic Thinking Grant (2018 – 2021) JHU Discovery Award (2016/17) BIS Research Fellowship (2012, 2016) Institute for New Economic Thinking/CIGI Grant (2012 – 2015) IMF Research Fellowship (2013/14) World Bank KCP Research Grant (2011 – 2014) Excellence in Refereeing Award, AER (2012) Networks Financial Institute Award (2011) Banque de France Research Grant (2010) Dean's Research Initiative, BSOS, University of Maryland (2010) Lamfalussy Fellowship, ECB (2009) Europlace Institute of Finance, Research Grant (2009) Departmental Award, Best Graduate Instructor, University of Maryland (2008, 2009) Klaus Liebscher Award, Austrian Central Bank (OeNB) (2009) GRB Summer Award and Research Support Award, University of Maryland (2009) Austrian Academy of Sciences, Doctoral Fellowship (2004 – 2006) Award for Best Graduate TA in Economics, Columbia University (2005) Vickrey Prize for Best Third Year Paper, Columbia University (2004) Postgraduate Fellowship of the Austrian Ministry of Education (2001 - 2003) Honorary Prize of the Austrian Ministry of Science and Education (2001) Erasmus Grant for Exchange Studies in Louvain-la-Neuve, Belgium (1999 - 2000) Silver Medal at the 28th International Chemistry Olympiad, Moscow (1996)

Teaching:

The Economics of AI (PhD level), Coursera.org, 2021 -Advanced Macroeconomic Theory (2nd Year PhD level), 2019 – 2024 AI and the Future of Work (junior/senior level), 2019, 2020, 2024 Creating Value in the Metaverse (MBA level), Darden School of Business, 2022 Courses Sessions on AI Here and Now (Exec. Ed.), Darden School of Business, 2022 AI and the Future of Work (MBA level), Darden School of Business, 2019 – 2021 Macroeconomic Theory I (1st Year PhD level), 2019 – 2020 Graduate Macroeconomic Theory II (1st Year PhD level), 2014 – 2018 Artificial Intelligence, Automation and the Economy (junior/senior level), 2018 Intermediate Macroeconomic Theory (junior level), 2015 – 2017 Financial Imperfections and Macroeconomic Implications (2nd Year PhD level), VGSE, 2015 Evolution and Economics (junior/senior level), 2014 Intl. Capital Market Integration: Benefits and Costs, SEACEN, Kuala Lumpur, August 2014 Macroeconomics of Imperfect Capital Markets (2nd Year PhD level), 2008 – 2013 Capital Markets and the Macroeconomy (senior level), 2009 – 2013 Financial Market Imperfections and Macroeconomics, Bundesbank, October 2012 Topics in International Finance (PhD level), CEU, May - June 2011 Crisis Reading Group, Organizer, 2008 – 2009 Advanced Graduate Workshop on Poverty, Development and Globalization (PhD level), Instructor (2007 – 2010, 2014)

Works-in-Progress:

"AI Agents for Economic Research" "Public Finance in the Age of AI," with Lee Lockwood "The Case for a Seed UBI"

Working Papers on the Economics of AI:

- "Economic Growth under Transformative AI," with Phil Trammell, requested by the *Annual Review of Economics*.
- "A Research Agenda for the Economics of Transformative AI," with Erik Brynjolfsson and Ajay Agrawal, revision requested by *CACM*

"Artificial Intelligence and Worker-Replacing Technological Progress," with Joseph Stiglitz

"Artificial Intelligence, Globalization, and Strategies for Economic Development," with Joseph Stiglitz

"Digitization and the Macro-Economics of Superstars," with Ding Xuan Ng

"Intelligent financial system: how AI is transforming finance," with Iñaki Aldasoro et al.

"How Innovation Affects Labor Markets: An Impact Assessment"

"Public Finance in the Age of AI," with Lee Lockwood

"Reading the Fund: A Systematic Analysis of IMF Fiscal Advice Using LLMs," with Jay Amgalan and Jeremie Cohen-Setton

"Scenarios for the Transition to AGI," with Donghyun Suh

"Steering Technological Progress," with Joseph Stiglitz

"The Rise of Artificially Intelligent Agents"

"Valuing AGI"

Working Papers on Macroeconomics and International Finance:

"Long-term debt propagation and real reversals," with Mathias Drehmann and Mikael Juselius, revision requested by the *Journal of Finance*

"Currency Wars or Efficient Spillovers? A Theory of International Policy Cooperation"

- "Macroeconomic stabilization for a post-pandemic world," with Joseph Stiglitz, Brookings Hutchins Center Working Paper #78.
- "COVID-19 Infection Externalities: Pursuing Herd Immunity or Containment?" with Zach Bethune, pre-print published in *Covid Economics*
- "Capital Controls and Currency Wars"
- "Excessive Dollar Borrowing in Emerging Markets: Balance Sheet Effects and Macroeconomic Externalities"

"Financial Innovation for Rent Extraction"

"Insurance Properties of Foreign and Local Currency Bonds in Small Open Economies"

"Macroprudential Equivalences and Not-Quite Equivalences," with Daniel Harper

"Risk-Taking Dynamics and Financial Stability," with Martin Nowak

Books

Editor of "Oxford Handbook of AI Governance," with Justin Bullock, Yu-Che Chen, Johannes Himmelreich, Valerie Hudson, Matthew Young and Baobao Zhang, Oxford University Press, Apr. 2024.

White Papers on AI Governance

- "Open-Sourcing Highly Capable Foundation Models: An Evaluation of Risks, Benefits, and Alternative Methods for Pursuing Open-Source Objectives," with Elizabeth Seger, Noemi Dreksler, Richard Moulange, Emily Dardaman, Jonas Schuett, K. Wei, et al., Centre for the Governance of AI, September 2023.
- "Frontier AI Regulation: Managing Emerging Risks to Public Safety," with Markus Anderljung, Joslyn Barnhart, Jade Leung, Cullen O'Keefe, Jess Whittlestone, et al., arXiv:2307.03718, Centre for the Governance of AI, July 2023.

Academic Publications:

- "Economic Policy Challenges for the Age of AI," forthcoming in *Rethinking Economic Policy: Steering Structural Change*, MIT Press, 2025.
- "Concentrating Intelligence: Scaling and market structure in artificial intelligence," with Jai Vipra, *Economic Policy* 40(121), pp. 225-256, Jan. 2025.
- "LLMs Learn to Collaborate and Reason: Dec. 2024 update of 'Generative AI for Economic Research: Use Cases and Implications for Economists," *Journal of Economic Literature*. Dec. 2024.
- "Foundational Challenges in Assuring Alignment and Safety of Large Language Models," with Usman Anwar et al, *Transactions on Machine Learning Research*, Sep. 2024.
- "LLMs Level Up—Better, Faster, Cheaper: June 2024 Update to Section 3 of 'Generative AI for Economic Research: Use Cases and Implications for Economists," *Journal of Economic Literature*. Jun. 2024.
- "Introduction," with Justin Bullock et al, *Oxford Handbook of AI Governance*, pp. 1-18, Apr. 2024.
- "Aligned with Whom? Direct versus social goals for AI systems," with Avital Balwit, Oxford Handbook of AI Governance, pp. 65-85, Apr. 2024.
- "Preparing for the (Non-Existent?) Future of Work," with Megan Juelfs, *Oxford Handbook of AI Governance*, pp. 746-776, Apr. 2024.
- "Generative AI for Economic Research: Use Cases and Implications for Economists" (lead article), *Journal of Economic Literature* 61(4), pp. 1281-1317, Dec. 2023.
- "Scenario Planning for an A(G)I Future," *IMF Finance & Development Magazine* 60(4), pp. 30-33, Dec. 2023.
- "AI's Economic Peril," with Stephanie Bell, *Journal of Democracy* 34(4), pp. 151-161, Oct. 2023.
- "Managing Capital Flows: Theoretical Advances and IMF Policy Frameworks," *Journal of Globalization and Development* 13(1), pp. 91-122, Sep. 2022.
- "Technological Progress, Artificial Intelligence, and Inclusive Growth," with Martin Schindler and Joseph E. Stiglitz, in Cerra et al. (eds.), *How to Achieve Inclusive Growth*, Oxford University Press, Dec. 2021.
- "AI and Shared Prosperity," with Katya Klinova, *Proceedings of the 2021 AAAI/ACM* Conference on AI, Ethics, and Society (AIES '21), pp. 645-651, July 2021.
- "COVID-19 Driven Advances in Automation and AI Risk Exacerbating Economic Inequality," with Joseph Stiglitz, *The BMJ* 372:n367, Mar. 2021.
- "Capital Controls: Theory and Evidence," with Bilge Erten and José-Antonio Ocampo, Journal of Economic Literature 59(1), pp. 45-89, Mar. 2021.
- "Integrating Ethical Values and Economic Value to Steer Progress in Artificial Intelligence," in Dubber, Markus, Sunit Das, and Frank Pasquale (eds.), *Oxford Handbook of Ethics of Artificial Intelligence*, pp. 463-479, July 2020.
- "Macroprudential Regulation Versus Mopping Up After the Crash," with Olivier Jeanne, *Review of Economic Studies* 87(3), pp. 1470-1497, May 2020.
- "Taxation and the Vanishing Labor Market in the Age of AI," *Ohio State Technology Law Journal* 16(1), pp. 244-257, Apr. 2020.

"External societal costs of antimicrobial resistance in humans attributable to antimicrobial use in livestock," with Gabriel K. Innes et al., *Annual Review of Public Health* 41, pp. 141-157, Apr. 2020.

"Managing Credit Booms and Busts: A Pigouvian Taxation Approach," with Olivier Jeanne, Journal of Monetary Economics 107, pp. 2-17, Nov. 2019.

- "Artificial Intelligence and Implications for Income Distribution and Unemployment," with Joseph Stiglitz, in Agrawal, Ajay K., Joshua Gans and Avi Goldfarb (eds.), *The Economics of Artificial Intelligence: An Agenda*, pp. 349-390, NBER and University of Chicago Press, May 2019.
- "Thoughts on DSGE Macroeconomics: Matching the Moment, but Missing the Point?" in Guzman, Martin (editor), *Towards a Just Society: Joseph Stiglitz and 21st Century Economics*, festschrift, New York: Columbia University Press, pp. 159-173, Aug 2018.
- "Regulating Capital Flows to Emerging Markets: An Externality View," *Journal of International Economics* 111, pp. 61-80, Mar. 2018.
- "Pecuniary Externalities in Economies with Financial Frictions," with Eduardo Dávila, *Review of Economic Studies* 85(1), pp. 352-395, Jan. 2018.
- "Liquidity Trap and Excessive Leverage," with Alp Simsek, *American Economic Review* 106(3), pp. 699-738, Mar. 2016.
- "Capital Controls or Macroprudential Regulation?" with Damiano Sandri, *Journal of International Economics* 99(S1), pp. S27-42, Mar. 2016.
- "Undervaluation through Foreign Reserve Accumulation: Static Losses, Dynamic Gains," with Luis Servén, *Journal of International Money and Finance* 64, pp. 104-136, June 2016.
- "The Redistributive Effects of Financial Deregulation," with Jonathan Kreamer, *Journal of Monetary Economics* 68, pp. S55-S67, Dec. 2014.
- "From Sudden Stops to Fisherian Deflation: Quantitative Theory and Policy," with Enrique Mendoza, *Annual Review of Economics* 6, pp. 299-332, Aug. 2014.
- "Capital Flows, Crises, and Externalities," Chapter 5 in Allen, Franklin et al., *The Global Macro Economy and Finance: Proceedings of the 16th IEA World Congress, Volume III,* Palgrave Macmillan, pp. 98-117, 2012.
- "The New Economics of Prudential Capital Controls: A Research Agenda," *IMF Economic Review* 59(3), pp. 523-561, Aug. 2011.
- "Hot Money and Serial Financial Crises," *IMF Economic Review* 59(2), pp. 306-339, June 2011.
- "Foreign Currency Debt, Risk Premia and Macroeconomic Volatility," *European Economic Review* 55, pp. 371-385, Apr. 2011.
- "Excessive Volatility in Capital Flows: A Pigouvian Taxation Approach," with Olivier Jeanne, *American Economic Review* 100(2), pp. 403-407, May 2010.
- "Decoupling and Contagion," with Agustin Roitman and Carlos Végh, *American Economic Review* 100(2), pp. 393-397, May 2010.
- "Dividend Taxation and Intertemporal Tax Arbitrage," with Joseph E. Stiglitz, *Journal of Public Economics* 93(1-2), pp. 142-159, Feb. 2009.

- "An Econometric Method of Correcting for Unit Nonresponse Bias in Surveys," with Johan Mistiaen and Martin Ravallion, *Journal of Econometrics* 136(1), pp. 213-235, Jan. 2007.
- "Survey Nonresponse and the Distribution of Income," with Johan Mistiaen and Martin Ravallion, *Journal of Economic Inequality* 4(1), pp. 33-55, Apr. 2006.
- "The Potential Consequences of Alternative Exchange Rate Regimes: A Study of Three Candidate Regions," with Eduard Hochreiter and Pierre L. Siklos, *International Journal of Finance and Economics* 8(4), pp. 327-349, 2003.

Non-Academic Publications:

- "Steering AI to Enhance Jobs and Prepare for Future Transformation," *Institute for New Economic Thinking*, May 2025.
- "AI and Economic and Financial Policy Making," G7 High-Level Panel of Experts Report, with Luis Videgaray, Philip Aghion, Barbara Caputo, Tracey Forrest, Katja Langenbucher, Hiroaki Miyamoto, and Michael Wooldridge, December 2024.
- "Financial intelligence: opportunities and risks of AI in finance," with Iñaki Aldasoro, Leonardo Gambacorta, Vatsala Shreeti, and Merlin Stein, *SUERF Policy Brief* No 1060, December 2024.
- "Neural Network Effects: Scaling and Market Structure in Artificial Intelligence," *Institute for New Economic Thinking*, October 2024.
- "Large Language Models level up Better, faster, cheaper: A 2024 mid-year update on generative AI, Brookings Report, July 2024.
- "Frontier AI Regulation: Safeguards Amid Rapid Progress," with Markus Anderljung, *Lawfare*, January 2024.
- "Gutting AI Safeguards Won't Help Europe Compete," with Risto Uuk, Barrons, December 2023.
- "Preparing the Workforce for an Uncertain AI Future," Testimony to the US Senate's AI Insight Forum, November 2023.
- "AI and the Future of (No?) Work in Developing Countries," Ideas Matter, IDB blog, October 2023.
- "Unleashing possibilities, ignoring risks: Why we need tools to manage AI's impact on jobs," with Katya Klinova, Brookings Report, August 2023.
- "AI Could Be Just the Productivity Boost the Economy Needs," with Martin Baily and Erik Brynjolfsson, Commentary, Barrons, August 2023.
- "Navigating the long shadow of high household debt," with Mathias Drehmann and Mikael Juselius, Brookings Report, July 2023.
- "Externalities, Capital Flow Management, and a Safer Global Financial System," in *Challenges and Options in Managing Capital Flows*, The SEACEN Centre, June 2023.
- "Metaverse economics part 1: Creating value in the metaverse," Brookings Report, June 2023.
- "Machines of mind: The case for an AI-powered productivity boom," with Martin Bailey and Erik Brynjolfsson, Brookings Report, May 2023.
- "Exploring the impact of language models on cognitive automation with David Autor, ChatGPT, and Claude," Brookings Report, February 2023.

- "The non-existent future of work," with Megan Juelfs, Milken Institute Review 25(1), pp. 32-41, January 2023.
- "@elonmusk and @twitter: The problem with social media is misaligned recommendation systems, not free speech," with Justin Bullock, Brookings Report, May 2022.
- "The IMF's updated view on capital controls: Welcome fixes but major rethinking is still needed," with Prakash Loungani, and Jonathan Ostry, Brookings Up Front, April 2022.
- "Why we need a new agency to regulate advanced artificial intelligence: Lessons on AI control from the Facebook Files," Brookings Report, December 2021.
- "Managing Capital Flows: Theoretical Advances and IMF Policy Frameworks," *IMF Independent Evaluation Office*, Background Paper BP/20-02/01, August 2020.
- "Labor in the Age of Automation and AI," policy brief, *Economists for Inclusive Prosperity*, January 2019.
- "AI and Income Distribution on the Planet of Superstars," in *Planet Algorithm: Artificial Intelligence for a Predictive and Inclusive form of Integration*, Integration and Trade Journal 22(44), IDB Institute, pp. 288-296, July 2018.
- "A Framework for Costing the Lowering of Antimicrobial Use in Food Animal Production," with Anthony D. So, Reshma Ramachandran, David C. Love, Jillian P. Fry and Christopher D. Heaney, commissioned background paper for the *UK Review on Antimicrobial Resistance*, May 2016.
- "Macroprudential Policy Beyond Banking Regulation," with Olivier Jeanne, *Banque de France Financial Stability Review* n°18, pp. 163-172, April 2014.
- "Multilateral Aspects of Managing the Capital Account," with Jonathan Ostry and Atish R. Ghosh, *IMF Staff Discussion Note* 12/10, September 2012.
- "Emerging market economies after the crisis: trapped by global liquidity?" (2012), in Volz, Ulrich (ed.), *Financial Stability in Emerging Markets: Dealing with Global Liquidity*, German Development Institute, pp. 35-39.

Business School Cases Studies and Teaching Notes:

- "Cyberattack on Abank," with Yiorgos Allayannis, 2022, UVA-F-1979, and accompanying Teaching Note, UVA-F-1979TN.
- "Artificial Intelligence Here and Now: Managing through Hype and Reality," with Alexander Spencer, 2021, UVA- OM-1724.

Advising:

- Current advisees/thesis committees: Joe Anderson, Paul Bousquet, Jose Ferrer, Jerry Qian, Max Schnidman
- Completed dissertations: 2007: Christian Daude; 2009: Juliana Araujo, Ha Nguyen (co-chair), Zhikun Qi, 2010: David Givens, Jeta Menkulasi, Zhaogang Qiao (co-chair); 2011: Javier Bianchi, Rong Qian, Takuji Komatsuzaki (co-chair); 2012: Armando Armenta, Julien Bengui (co-chair), Pablo Federico, Salih Fendoglu, Hyunsoo Joo, Yasin Mimir, Belen Maria Sbrancia, Masahiro Yamada; 2013: Rocio Gondo Mori (chair), Orhan Torul, Elif Ture (co-chair), Igor Zuccardi; 2014: Yoichi Goto, Alvaro Pedraza, Xi Yang, Jianzhi Zhao; 2015: Collin Rabe, Jiae Yoo, Jonathan Kreamer (chair), Ling Zhu (chair); 2016: An Wang (co-chair), Sevcan Yesiltas; 2018: Chang Ma (co-chair), Ding Xuan Ng (co-

chair); 2020: Miguel Mascarua; 2021: Lalit Contractor (co-chair); 2022: Rachel Lee, Flora Lutz, Joaquin Saldain; 2023: Yan Chen (chair), Daniel Harper (co-chair), Hasan Toprak (chair); 2024: MJ Nilayamgode, Yi Ping, Donghyun Suh (chair)

Independent study supervision: 2019: Avital Balwit (2021 Rhodes scholar), 2021: Sophia Nevle Levoy, 2023: Davis Taliaferro

Other mentoring activities: AIES student program (2021)

Conferences Organized:

NBER Economics of Transformative AI Workshop (Sept 2025)
CEPR Economics of AI Workshop in Paris (2024)
Economics of Transformative AI Roundtable in San Francisco (2025)
Asilomar Workshop on the Economics of Transformative AI (2024)
Workshop on Frontier AI Regulation (2023)
IMF/IPD Conference on Inflation: Origins, Transmission, Policy Responses, and International Implications (2023)
Brookings/GovAI Conference on the Governance of Transformative AI (2022)
INET Webinar on Macroeconomic Externalities (2020, 2021)
GovAI Webinar Series on the Governance and Economics of AI, Future of Humanity Institute/Centre for the Governance of AI (2020 –)
INET/IMF Conferences on the Macroeconomic S of AI (2018, 2020)
INET Conference Series on Macroeconomic Externalities (2013 – 2015)

Seminars, Webinars, Conferences, Presentations:

2025 (including scheduled) *Seminars/Webinars:* Bank of Finland, CEPR Webinar Series on the Economics of AI

Conferences: AEA Meetings, NABE

Policy Briefings and Presentations: Bank of Finland

Podcasts: Financial Times Tech Tonic

Discussions: AEA Meetings

- 2024 (including scheduled) *Seminars/Webinars:* Anthropic, Bank of Finland, Brookings, CICC Global Institute, CREDO annual keynote, ETHZ, Federal Reserve, GovAI, IMF, JHU SAIS, Luohan Academy, Markus Academy, OeNB, OpenAI, PAI Shared Prosperity Initiative, PSE, RAND, SEACEN, Sorbonne, St Gallen, SUERF, University of Richmond, VoxDev, Wharton, World Bank
- *Conferences:* Brookings-KDI Conference, BoK-FSC-BIS Seoul AI Conference, CEPR Economic Policy Panel, CEPR Workshop on the Economics of AI, OECD-EU Workshop on Regulation of AI, IMF-PIIE Conference on Rethinking Economic Policy, IMF-WIFPR Conference on AI and Finance, Joint Vienna Institute

Podcasts: Center for AI Policy, FLI

Policy Briefings and Presentations: Bank of Finland, BIS Roundtable of Central Bank Governors, IMF, Embassy of Austria, B7 Digitization Group, GPAI, HM DSIT, HM Treasury, JVI Annual Lecture, Swiss National Bank Discussions: IMF Fiscal Policy Monitor Conference

- 2023 Seminars/Webinars: ABFER, AEI Workforce Futures Initiative, AMLEDS Seminar, Aspen Digital Virtual Roundtable, Axel Leijonhufvud Lectures, Bank of Finland, Banque de France, BIS, Brevan Howard, Brookings, CEPR CAFFE, Citi Research, CSG East, Citadel, ECFIN Economic Seminar, FDA, Flourish Ventures, GovAI, IADB, IEA Panel on Appropriate Technologies, IIM Ahmedabad, IMF ICD, International Trade Commission, JP Morgan, MITRE, NBP/MNB Conference on Growth, NSD/CCER Peking University, OECD, Oesterreichische Nationalbank, OMFIF, Omidyar Network, Partnership on AI SPI Webinar, Peterson Institute, QC at UVA, St Andrews, Stanford DEL, US Treasury, UVA, UVA Darden-SDS, World Bank, ZIBS
- *Conferences:* Brookings Council & Society Summit, CEPR 40th Anniversary Symposium, CMU Webinar on Generative AI, Council of State Governments East, EA Global, Monash-Warwick-Zurich Text-as-Data Workshop, NeurIPS SoLaR Workshop, NY Fed Conference on Fintech, NYU Economics of Robots Conference, OECD TIP Conference, Richmond Fed TED Conference, UVA Investing Conference, Virginia IRB Consortium Conference, World Bank MTI Forum, Zurich AI + Economics Workshop
- Policy Briefings and Presentations: EC ECFIN, EC National Productivity Board Workshop, EU EFC/ECOFIN, Board of Federal Reserve Bank of Richmond, Federal Reserve Board of Governors, IMF/WB Spring Meetings, IMF FAD Retreat, IMF ICD Retreat, OAS, OECD WP3, UN Digital Technology Network, UN TechTalk, US Senate Testimony at AI Insights Forum on Workforce, VEDP
- *Podcasts:* A Sustainable Future, Behind the Markets, Philosophical Disquisitions, The Stakeholder Podcast, VoxTalks
- Discussions: Peterson Institute, Webinar on Digitalization
- **2022** Seminars/Webinars: AI for Good, Centre for the Governance of AI (GovAI), CEU, IMF, Jain Family Institute, Luohan Academy, Sao Paolo School of Economics, Tilburg, University of Chile, University of Vienna, UVA Human and Machine Intelligence Group, SDAD Biocomplexity Institute, UVA Karsh Institute "Algorithms and Democracy", University of Vienna
- *Conferences:* ASSA, Brookings/GovAI Conference on Transformative AI, Fed Board IF Collab week on "Digitization and the Economy," ICEA Future of Work Conference, IPD-FEPS Conference, IPD-JICA Taskforce on Employment, NBER Economics of AI, New Forum Good-Jobs Workshop, Non-traditional Data, ML and NLP in Macro Conference, SED Meetings, UVA State as Experiment Conference

Podcasts: VoxTalks

Discussions: Brookings AI Authors' Conference

- **2021** *Webinars:* Brookings, CUHK-Shenzhen, IEO, IIFT, IMF, JHU SAIS, PUC-Rio, UNICAMP, Universitat Autònoma de Barcelona
- Conferences: AAAI/ACM Conference on AI Ethics and Society, AEA, AI@Northwestern, Brookings AI Authors' Conference, CEBRA Annual Meeting, Fitz-Hugh Symposium, Graz Schumpeter Centre, Handbook of AI Governance Conference, Intl Macro/Finance Workshop at Sogang, KDI Frontiers in Development Policy Conference, NASMES, NBER Economics of AI, Oxford-ETHZ Macro-Finance Conference, RCIA Future of Growth, SED

- *Discussions:* ABFER, Handbook of International Economics Conference, IMF Conference on Climate-Related Disasters, IMF Panel on Managing Technology in Finance, INET-IPD Virtual Seminar on Macroeconomic Externalities, SEACEN Policy Summit
- **2020** *Webinars:* ABFER/Chicago, ASciNA, Bank of Canada, BFI China, American, Brown, CEPR COVID Seminar, Diego Portales, Duke, Michigan State, Partnership on AI, Philly Fed, UVA, SEACEN, Youth Economics Initiative
- *Conferences:* AEA; BU Conference on Reforming the Global Financial Safety Net, CIFAR Innovation, Equity, and the Future of Prosperity Workshop; FightPandemics Summit, IEO Capital Flows Workshop; 3rd IMF-OECD-WB Conference on Structural Reforms, INET/IMF Conference on Macro of AI; INET/Stanford Conference on Labor, Technology and Growth; INET Webinar on the Future of Work, NBER Economics of AI Meeting, RadicalXchange, UCSB Mind and Machine Intelligence Conference
- Discussions: AEA, IMF Macroprudential Conference, INET Workshop on Macroeconomic Externalities, Washington Area International Finance Symposium
- 2019 Seminars: Oxford Future of Humanity Institute, Princeton, PSE
- *Conferences:* AI and Taxation Conference at OSU, ASSA/ES, ECB Conference on Challenges in the Digital Age, Escape Velocity, Ethics of AI Conference at UToronto, IBEFA, IMF Macro-Financial Research Conference, INET Taskforce on Macroeconomic Externalities, Tom Tom Festival, Columbia/Paris Workshop on Macroeconomic Coordination and Crises
- Discussions: ECB Macroprudential Conference, IBEFA, IMF Macro-Financial Research Conference, UVA Symposium on Financial Economics
- **2018** Seminars: IADB, JHU, Montreal, Richmond Fed, UVA Darden, UVA Human Machine Intelligence Group, Villanova
- *Conferences:* AEA, CGET Meeting on Globalization, ECF New Economic Paradigm Workshop, ES, IMF/INET Conference on the Macroeconomics of AI, IMF-OECD-WB Conference on Structural Reforms, INET/Columbia Conference on Macro Efficiency and Stability, Leidos/CIA, NBER Economics of AI Meeting, NYFed/Stern Conference on Financial Intermediation, Rebuilding Macroeconomics, TPI Conference on AI
- Discussions: AEA, BIS Research Network
- 2017 Seminars: FDIC, UVA, UVA Darden, World Bank
- *Conferences:* AEA, Banco de Espana, Bank of Canada, BIS IADI, CFA Institute, Drexel-PFED Conference on Credit Markets and the Macroeconomy, IBEFA, IMF Statistical Forum, NBER Economics of AI Meeting, NBER Summer Institute, OFR Financial Stability and Fintech Conference, Stanford SITE
- Discussions: IMF ARC, UMD Conference on Information in Financial Markets
- **2016** *Seminars:* Banco de Portugal, Bank of England, Banque de France, Cambridge, Columbia/INET, Ecole Polytechnique, IMF RES, Geneva Trade and Development Workshop, JHU SAIS, LSE, Oxford, Rochester, San Francisco Fed, Stanford Finance, Toulouse, UNC Chapel Hill, Vanderbilt, Vienna GSF
- *Conferences:* AEA, AFA, ECB Macroprudential Conference, EEA (invited), ES, NBER Summer Institute, Norges Bank-ESCB-CEBRA Workshop on Financial Stability and Macroprudential Policy, Paris Conference on Rethinking Capital Controls, SNB Research Conference, UCSB LAEF Pecuniary Externalities Conference

Discussions: AEA, BIS Research Network, IMF Research Conference, NBER IFM SI

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2015 Seminars: CMU-Pitt International Workshop, SNB, University of Vienna
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- Conferences: AEA, AFA, BCBS/CEPR/JFI Workshop, FDIC Bank Research Conference, Festschrift Conference in Honor of Joseph Stiglitz, IBEFA, NBER ISoM (invited), SED (invited)
- Discussions: IBEFA, NBER CEME
- **2014** Seminars: Brookings, CEMLA, Dutch National Bank, Fed Board, FRB Minneapolis, IMF, Rutgers
- *Conferences:* AEA, Barcelona Summer Forum, ES Meetings, IEA (invited), IMF, NBER-CBRT Conference on Monetary Policy and Financial Stability in EMs, NBER EFCE Summer Institute, NBER IFM Fall Meeting, IMF Annual Research Conference, IMF Workshop on Capital Flows, Bonn Conference on the European Crisis, ECB Macroprudential Research Network, FRB-ECB-FRBNY Global Research Forum, OeNB/RBWC Conference on Bretton Woods, Peking University SEFM Symposium on Emerging Financial Markets
- Discussions: ES Meetings, FRB SF Conference, IMF Workshop, NYU-Stern Macro-Finance Conference
- 2013 Seminars: Boston Fed, Brown, Chicago Fed, FDIC, USC, Wisconsin
- Conferences: ABFER, AEA Meetings, Annual Workshop on MGI, CEMLA Macroprudential Conference, Chicago/NYU International Macro Finance Conference, CSEF Conference on Finance and Labor, FDIC/JFSR Conference, FIRS, HKUST/HKIMA Conference on Macro/IF, IPD Conference on Macroeconomic Cooperation, KIF, LASA, LSE Systemic Risk Conference, NBER EFCE Summer Institute, SED, Tsinghua Macro Workshop, USCS/SCU West Coast Workshop
- Discussions: AEA, AFA Meetings, FIRS, NBER IFM Spring Meeting
- **2012** Seminars: BC, Bank of England, Bank of Sweden, BIS, BU, Joint ECB/Bundesbank Seminar, Johns Hopkins, Maryland, Zurich/SFI
- *Conferences:* Bank of England Conference "Beyond DSGE", CIGI/INET Conference on False Dichotomies, ECB/BIS Conference on Global Liquidity, Cowles GE Conference, ECB MaRS Network, Gerzensee, LBS, NBER EFCE Summer Institute, NBER IFM Fall Meeting, NES/HSE Macro Conference
- **2011** *Seminars:* Bank of England, Banque de France, Bocconi, CEU, CREI, EBRD, ECB, Frankfurt University, Harvard, LSE
- Conferences: AEA Meetings, Banco de Portugal Conference, Central Bank of Turkey Conference, EABCN Conference, IEA Meetings (invited), Konstanz Seminar, NBER IFM Spring Meeting, Networks Financial Institute, Norges Bank Workshop 2011, Paul Woolley Conference, Smith/Stern/Haas/Tepper Conference on Systemic Risk, Toulouse Conference on Risk Management
- Discussions: AEA Meetings, AFA Meetings, LFN Meetings, NYFed/Board Conference on Financial Intermediation
- **2010** *Conferences:* AEA Meetings, BIS/CEPR Conference on Systemic Risk, Banca d'Italia/Banque de France Conference on the Future of Monetary Policy, BWPI Manchester Workshop, Cleveland Fed Conference on Countercyclical Capital Regulation, ECB-CFS Conference on Macroprudential Regulation, ECFIN/EER

Workshop, FIRS, Gerzensee, G-20/RBWF Conference on the International Monetary System, GMU Workshop on Agent-Based Modeling, HKIMR Conference on the Chinese Economy, IMF Jacques Polak Annual Research Conference, IMF Workshop on Systemic Risk, INET Inaugural Conference, Reinventing Bretton Woods Committee, Stanford Institute for Theoretical Economics, Tilburg Financial Stability Conference, Paul Woolley Conference

- Seminars: Atlanta Fed, Federal Reserve Board, IMF, MIT, NY Fed, Princeton, St. Louis Fed, UNC Chapel Hill, World Bank
- Discussions: FIRS, BU Conference on Macro-Finance Linkages
- **2009** *Conferences:* Austrian Central Bank Economics Conference, BWPI Manchester Workshop, Dallas Fed/BoC Conference on Capital Flows, ECB-CFS Conference on Financial Stability, FIRS Conference, LFN Meetings, NFA Meetings, WEF Warwick Workshop
- Seminars: Bank of England, Census Bureau, IADB, Johns Hopkins University, Tilburg University, Toulouse, University of British Columbia, World Bank
- Discussions: FIRS, NBER IFM Summer Institute
- **2008** *Conferences:* AEA Meetings, Bundesbank-CEPR-CFS conference on Risk Transfer, CAF-FIC-SIFR Conference on Emerging Market Finance, CESifo/Bundesbank Conference on Liquidity, Cambridge Finance Conference on the IMF and Financial Crises, CREI-CEPR Conference on Business Cycle Developments, CREI-IAS Egon Sohmen Symposium, ECB Macroeconomic Stability Conference, FDIC/Cleveland Fed Research Conference, IEA World Congress (invited), IMF/World Bank Conference on Risk Management, NBER IFM Meeting, SNB-CEPR Conference on Foreign Currency Related Risk Taking, Society for Economic Dynamics, SUERF Colloquium
- Seminars: Austrian Central Bank, BIS, Boston Fed, CEU, George Washington University, IIES Stockholm, IMF, Johns Hopkins SAIS, University of Manchester, University of Washington
- Discussions: Bank of Canada Workshop, NBER's Universities Research Conference
- 2007 Seminars: University of Bonn, Boston Fed, Columbia University, Dallas Fed, Dartmouth College, Federal Reserve Board, University College London, University of Manchester, University of Maryland, Michigan Business School, UNC Chapel Hill, UC San Diego, Swiss National Bank, Bank of Thailand, University of Vienna, University of Virginia, World Bank

Conferences: EEA/ESEM Meetings

Discussions: 3rd Vienna Symposium on Asset Management

2006 *Conferences:* NBER's Universities Research Conference, University of Manchester, North American Summer Meetings of the ES

Seminars: Columbia University

- **2005** *Conferences:* Symposium on Development and Globalization at Columbia University, Eastern Finance Association
- Seminars: Columbia University

Review work:

Public reports: National Academies of Sciences, Engineering, and Medicine; RAND

- Journals: American Economic Journal: Macro, American Economic Review, CESifo Economic Studies, Covid Economics, Econometrica, Economic Theory, European Economic Review, IMF Economic Review, International Economic Review, International Journal of Central Banking, International Tax and Public Finance, Journal of Banking and Finance, Journal of Business Ethics, Journal of Development Economics, Journal of Economic Dynamics and Control, Journal of Economic Education, Journal of Economic Literature, Journal of Economic Theory, Journal of Finance, Journal of Financial Intermediation, Journal of Financial Stability, Journal of Globalization and Development, Journal of International Economics, Journal of International Money and Finance, Journal of Monetary Economics, Journal of Money, Credit and Banking, Journal of Political Economy, Journal of Public Economics, Journal of the European Economic Association, Management Science, PLOS ONE, Quarterly Journal of Economics, Review of Economic Dynamics, Review of Economic Studies, Review of Financial Studies, Science, Tax and Public Finance, World Development
- Publishers: MIT Press
- *Grantmakers:* Austrian Science Fund, European Research Council, Hong Kong Research Grants Council, Institute for New Economic Thinking, National Science Foundation, Schmidt Futures
- Program Committees: IEA (2014), INET Conference on Macroeconomic Externalities (2013

 –), NYU Stern/NY Fed Conference on Financial Intermediation (2016 20), SED
 (2017), Cleveland Fed and OFR Financial Stability Policy Conference (2020)

Other Professional Service:

Editorial Board Member: Covid Economics (2020/2021), Robonomics (2020 -)

- Departmental Service: Departmental Webpage Committee (2007 09), Graduate Admissions Committee (2008 – 13, 2018), Graduate Studies Committee (2009 – 11), Organizer of Macro Workshop (2007 – 13, 2015, 2020), Senior Recruiting Committee (2010/11, 2018/19), Macro Comp Committee (2014 – 18, 2020), Economics Chair Search Committee (2019), Organizer of Macro Student Workshop (2019 –), Organizer of VCEP Macroeconomic Policy Roundtable (2019 –), Placement Committee (2019 – 2021), Distinguished Majors Committee (2020/21), Macro Recruiting Committee (2023/24), Chair Advisory Committee (2023 –)
- A&S College Level Service: Task Force on Distance Learning and MOOCs (2013), Steering Committee of Human Machine Intelligence Group (2019 –), Arts and Sciences Innovation Team (2020)
- Darden School of Business: Recruiting Committee (2018 2020), COVID-19 Task Force (2020), COVID-19 Return-to-Work Task Force (2020), COVID-19 Return-to-Grounds Task Force (2020), COVID-19 Health and Safety Data and Guidance Committee (2020)
- Association of Graduate Economics Students (AGES), Columbia University, Class representative (2001 03), President (2003 04), Organizer of Inter-University Graduate Student Conference (IUC, 2003)

Membership in Academic Associations:

American Economic Association, Austrian Scientists in North America, Credo, Econometric Society, Euro Area Business Cycle Network, European Economic Association, International Banking, Economics, and Finance Association, Society for Economic Dynamics