Kristin Vrona

Curriculum Vitae

Location: Sycamore, IL 60178 US Email: kristin.vrona@gmail.com Phone: (630) 881-7612 LinkedIn: linkedin.com/in/kristin-vrona

Website: kristin-vrona.github.io/Kristin-Vrona-Portfolio/

EDUCATION

Ph.D.	Economics, Northern Illinois University (NIU)	2025
	Degree specializations: econometrics, labor economics	
	Secondary Fields: health economics, strategy and game theory, pu	ıblic policy
M.A.	Economics, Northern Illinois University	2018
B.S.	Economics, summa cum laude. Northern Illinois University	2016

Dissertation

An Analysis of Mental Health and Workplace Absenteeism: This dissertation investigates how untreated mental illness affects employee absenteeism and the role of fringe benefit package design on the magnitude of productivity loss attributed to mental illness. Using MEPS data (2010-2014), I apply several econometric frameworks to isolate the causal impact of mental health on labor outcomes and examine the possibility of non-random selection into employment that biases the magnitude of estimates. A key innovation is a spectral approach to mental illness measurement that captures symptom variation beyond formal diagnosis. The findings support the business case for early intervention and tailored health benefits to improve productive time losses.

FIELD EXPERIENCE

${\it Freelance \ Field \ Expert:} \ {\it Applied \ Microeconomics, \ Econometrics}$

2024 - present

Currently contracted with Snorkel AI (remote)

• Designed and executed adversarial overload strategies to expose model limitations in real-world applications

Graduate Research Fellow

2022 - 2024

Institute for the Study of the Environment, Sustainability, and Energy, DeKalb, IL

- Fellowship sponsored by Illinois Department of Natural Resources (IDNR)
- Consulted IDNR on improving scoring indexes that determine funding allocations

Teaching Fellow

2017 - 2022

Department of Economics, NIU, DeKalb, IL

- Independently instructed courses for 15 38 students
- Promoted team-based learning (TBL) initiatives
- Led graduate level recitation sessions
- Acted as Undergraduate Academic Advisor, preparing students to succeed in the program and representing the Economics Department at events

Business Operations Analyst

2016 - 2017

MOL Logistics, U.S. Corporate Office, Lombard, IL

- Increased forecasting accuracy by 5-8% in three months
- Monitored and assessed projection model performance, presented actionable insights to domestic and international executive management
- Conducted operational auditing, reallocating idle assets and cutting costs

Kristin Vrona 1 May 2025

AWARDS, HONORS, & FELLOWSHIPS

Academic

- 2022 Dissertation Fellowship, NIU Graduate School, runner-up position, awarded tuition waiver
- 2018 Outstanding Graduate Student Award, NIU Graduate School, April
- 2017 Outstanding Master's Student Award, Department of Economics, NIU, December
- 2017 Kellstadt Graduate Scholarship, DePaul University Kellstadt Graduate School of Business, declined in favor of offer Teaching Fellowship at NIU
- 2012-2016 Departmental Honors, Department of Economics; Dean's List, College of Liberal Arts & Sciences; Academic Excellence List, NIU

Professional

- 2023 IL congressional session (February 28) & gubernatorial press conference (March 1).

 ESE team honored for management of \$59 million in grant funds across IL parks projects.
- 2017 MOL Spot Award, MOL Logistics, June, Monetary award for streamlining data processes and developing standard operating procedures for cross-departmental implementation.

ADVANCEMENT & DEVELOPMENT

2024	Retirement Confidence Survey:	Results and Insight Web	inar, Employee Benefit
	Research Institute (EBRI), June	25	
2024		11 2024 C . D 11 E	3.5 4.0

- EBRI & American Benefits Council: 2024 Spring Policy Forum, May 16
- 2024 Collaborative Institutional Training Initiative: Human Subjects Research Training, February 22
- 2023 IDNR & Federal Department of Natural Resources Collaborative Sessions, February 27-28
- The Committee on the Status of Women in the Economics Profession (CSWEP) Mentorship Seminar
- 2020 CSWEP Successfully Navigating Your Economics PhD, November 20
- 2019 Federal Reserve Bank of Chicago 12th Annual Risk Conference
- 2019 NIU Department of Economics ECONference, April
- 2017 NIU Department of Economics ECONference, April 26

Certifications

CITI Program Human Subjects Research Training Certification (February 2024 - February 2029)

DEPARTMENTAL & UNIVERSITY SERVICE

2019	Academic Advisor, Department of Economics, NIU Transfer Student Open House
	Days, October 18 & November 11

- 2019 Department Representative, Department Organizer, Department of Economics, NIU Major and Minors Fair, September 18
- 2018 Academic Advisor, Department of Economics, NIU Transfer Student Open House Days, October 8 & November 12
- 2018 Academic Advisor, Department of Economics, NIU Transfer Student Open House Days, March 30
- 2018 Department Representative, Co-organizer, Department of Economics, NIU Spring Internship and Job Fair, February 20
- 2017 Assistant Undergraduate Academic Advisor, Department of Economics, Fall 2017. Created and updated NIU Department of Economics pamphlets and posters

SERVICE TO PROFESSION

2022-2023 *Primary Grant Reviewer*, IDNR Open Space Land Acquisition and Development Program

CAMPUS & DEPARTMENTAL TALKS

2022	"Labor Productivity and Health", ECON 700: Labor Economics I, NIU Department
	of Economics, November 27
2021	"Moderate to Severe Diagnosed Mental Disorders and Absenteeism", NIU Depart-
	ment of Economics Graduate Colloquium Seminar, March 24
2018	"Mental Health & Labor Supply", NIU Department of Economics Graduate Collo-
	quium Seminar, November 23

Conference Presentations

2025 "An Analysis of Mental Health and Workplace Absenteeism" (dissertation), NIU Annual ECONference, April

TEACHING EXPERIENCE

Northern Illinois University (NIU)

Principles of Macroeconomics, undergraduate, Instructor of Record	SU22, SU21, SP21, F20
Intermediate Macroeconomics, undergraduate	SP22
Econometric Analysis, undergraduate	F21
Public Sector Economics, graduate	F20
Microeconomic Analysis, graduate	SP20, F18

TECHNICAL SKILLS

Programming Languages

- Proficient in R, SAS, VBA, LATEX
- Intermediate experience with Python, GitHub, STATA

Operational Database & Public Fund Management

• SQL, BI software, ODS management, STARNET (contract management & auditing), AmpliFund (public grant management software)

Econometric Methods

- Time-Series Analysis, Instrumental Variables, Panel Methods, Regression Discontinuity, Duration & Survival Analysis, Simultaneous Regression
- Matching, Simulation, Bias Reduction & Re-Sampling Techniques (Bootstrap, Jackknife), Sensitivity Analysis

SELECTED RESEARCH ABSTRACTS

Job Market Paper

Labor Supply Dynamics Among Employed Workers with Mental Illness

Abstract: In this article, the impact of diagnosed mental illness on workplace productivity is examined, focusing on variations between levels of psychological distress and perceived physical health. I also explore the influence that comorbidity of chronic physical and mental illnesses imposes on absenteeism using the Medical Expenditure Panel Survey (MEPS). For both genders, I find that the impact of mental illness is eventually overshadowed by distress-related symptomatology, highlighting the significant role of undiagnosed mental illness in productivity losses.

Manuscript in Preparation

Mental Health and Absenteeism: the Role of Fringe Benefits as Moderators

Abstract: This study examines the impact of mental illness on health-related labor supply decisions, using data from the Medical Expenditure Panel Survey (MEPS) for employed adults in the United States. The analysis explores the effects of both diagnosed mental illness and self-reported mental well-being on health-induced absenteeism, while investigating how job characteristics may amplify or mitigate these effects. Employer-sponsored health benefits, while generally associated with higher absenteeism due to labor substitution for health-related needs, are found to mitigate the impact of mental illness on absenteeism.

Additional Paper

The Role of Individual Health Patterns and Endogenous Employment on Absenteeism

Abstract: This paper examines the question often present in behavioral models of health - the bias that can persist across estimates when unobserved factors drive behavior. In the context of this study, individuals may select into employment non-randomly. For instance, ability to balance health issues while being productive. When these possibilities are ignored, the magnitude of the effect that mental illness has on absenteeism is likely underestimated. A classic Heckman selection model, supported by strong exclusion restrictions, suggests the presence of endogenous sample selection that is validated by a semi-parametric copula-based selection model that accommodates the discrete and overdispersed nature of absence data.

Dissertation Committee & References

Virginia Wilcox, chair

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Maria Ponomareva

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Anna Klis

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Kristin Vrona 4 May 2025