

## JANE COOLEY FRUEHWIRTH

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### RESEARCH INTERESTS

Social Economics, Economics of Education, Mental Health

### EDUCATION

DUKE UNIVERSITY, Ph.D. in Economics, May 2006.

THE COLLEGE OF WILLIAM AND MARY, BA. in Economics with High Honors, Magna Cum Laude, May 2000.

### PROFESSIONAL EXPERIENCE

UNIVERSITY OF NORTH CAROLINA	
Associate Professor, Economics	July 2017-present
Fellow, Carolina Population Center	July 2016-present
Adjunct Associate Professor, Public Policy	July 2019-present
Assistant Professor, Economics	July 2015-June 2017

#### OTHER AFFILIATIONS

Research Associate, National Bureau of Economic Research	
Economics of Education	April 2021-present
Affiliate, Institute for Research on Poverty	Fall 2006-present
Member, Human Capital and Economic Opportunity Working Group	Fall 2011-present
Associate Editor, <i>Journal of Human Capital</i>	Spring 2017 to present
Associate Editor, <i>Economic Inquiry</i>	Fall 2013 to present
Editorial Board, <i>Educational Evaluation and Policy Analysis</i>	January 2017 to present

UNIVERSITY OF CAMBRIDGE	
Reader (Associate Professor with tenure), Economics	July 2014-June 2015
Lecturer (Assistant Professor), Economics	Fall 2011-June 2014
Fellow, Christ's College	Fall 2011- June 2014

UNIVERSITY OF WISCONSIN-MADISON	
Assistant Professor of Economics	Fall 2006-June 2011
Wisconsin Center for Education Research,	
Interdisciplinary Training Program in Education Sciences	Fall 2006-2011
Faculty Associate, La Follette School of Public Affairs	Fall 2007-2011
Affiliate, Center for Demography and Ecology	Fall 2008-2011

DUKE UNIVERSITY  
Research Assistant

Summer 2002,  
Fall 2003-Spring 2005  
Fall 2002-Spring 2003

Teaching Assistant

BOARD OF GOVERNORS OF THE FEDERAL RESERVE

Research Assistant in Financial Markets, International Division July 2000-June 2001

## HONORS AND FELLOWSHIPS

Philip Leverhulme Prize, recognizing outstanding early career researchers across disciplines, January 2013 to June 2014, £70,000

British Academy Mid-Career Fellowship, 2013-2014, “Parents vs. Peers: The Determinants of Achievement Gaps as Students Age,” £92,329

Maude P. and Milton J. Shoemaker Fellowship in Economics, University of Wisconsin-Madison, 2006-2008

Spencer Foundation Dissertation Fellowship, 2005–2006

Phi Beta Kappa, The College of William and Mary, 2000

Robert A. Barry Most Outstanding Economics Major Award, 2000

## REFEREED PUBLICATIONS

(Authors ordered alphabetically for economics publications, as standard in economics)

- [1] Jaeger, David A., Jaime Arellano-Bover, Krzysztof Karbownik, Marta Martinez-Matute, John M. Nunley, R. Alan Seals, Miguel Almunia, Mackenzie Alston, Sascha O. Becker, Pilar Beneito, René Böheim, José E. Boscá, Jessica H. Brown, Simon Chang, Deborah Cobb-Clark, Shooshan Danagoulian, Sandra Donnally, Marissa Eckrote-Nordland, Lída Farré, Javier Ferri, Margherita Fort, Jane Cooley Fruehwirth, Rebecca Gelding, Allen C. Goodman, Melanie Guldi, Simone Häckl, Janet Hankin, Scott Imberman, Joanna Lahey, Joan Llull, Hani Mansour, Isaac McFarlin, Jaakko Meriläinen, Tove Mörtlund, Martin Nybom, Stephen D. OConnell, Rupert Sausgruber, Amy Ellen Schwarz, Jan Stuhler, Petra Thiemann, Roel van Veldhuizen, Marianne Wannamaker, Maria Zhu “The Global COVID-19 Student Survey: First wave results,” *Covid Economics*, 79, May 27, 2021.
- [2] Fruehwirth, Jane Cooley, Siddhartha Biswas, Krista Perreira, “The Covid-19 pandemic and mental health of first-year college students: Examining the effect of Covid-19 stressors using longitudinal data,” *PLOS One*, March 5, 2021.  
*Media mentions:* [WRAL](#), [The Well](#), [The Daily Tarheel](#), Infosurhoy, [Scienmag](#), [MedicalXpress](#), [EurekAlert](#)
- [3] Sean Kelly, Zachary Mozenter, Esteban Aucejo, Jane Cooley Fruehwirth, “School-to-School Differences in Instructional Practice: New Descriptive Evidence on Opportunity to Learn,” 2020, *Teacher College Record*, 122(11).
- [4] Kelly, Sean, Robert Bringe, Esteban Aucejo and Jane Cooley Fruehwirth “Using Global Observation Protocol to Inform Research on Teacher Effectiveness and School

- Improvement: Strengths and Emerging Limitations”, 2020, *Education Policy Analysis Archives*, 28(62).
- [5] Fruehwirth, Jane Cooley, Jessica Gagete Miranda “Your Peers’ Parents: Spillovers from Parental Education”, 2019, *Economics of Education Review* 73(December).
- [6] Fruehwirth, Jane Cooley, Sriya Iyer and Anwen Zhang “Religion and Depression in Adolescence,” 2019, *Journal of Political Economy*, 127(3).  
*Media mentions:* [NPR’s Hidden Brain](#), [America Magazine](#)
- [7] Fruehwirth, Jane Cooley, Salvador Navarro and Yuya Takahashi, “A Framework for the Analysis of Time-varying Treatment Effects: How the Timing of Grade Retention Affects Outcomes,” 2016, *Journal of Labor Economics*, 34(4): 979-1021
- [8] Fruehwirth, Jane Cooley “Can Achievement Peer Effect Estimates Inform Policy? A View from Inside the Black Box,” 2014, *Review of Economics and Statistics* 96(3): 514-523
- [9] Fruehwirth, Jane Cooley “Identifying Peer Achievement Spillovers: Implications for Desegregation and the Achievement Gap,” 2013, *Quantitative Economics* 4(1), 85-124
- [10] Bajari, Patrick, Jane Cooley Fruehwirth, Kyoo-Il Kim and Christopher Timmins “A Rational Expectations Approach to Hedonic Price Regressions with Time-Varying Unobserved Product Attributes: The Price of Pollution,” 2012, *American Economic Review* 102(5): 1898-1926
- [11] Brock, William A., Steven N. Durlauf, Jane Cooley Fruehwirth and Salvador Navarro “On the Observational Implications of Taste-Based Discrimination in Racial Profiling,” 2012, *Journal of Econometrics*, 166(1): 66-78
- [12] Arcidiacono, Peter, Jane Cooley and Andrew Hussey “The Economic Returns to an MBA,” 2008, *International Economic Review*, 49(3): 873-899
- [13] Rodgers, Yana V. and Jane Cooley "Outstanding Female Economists in the Analysis and Practice of Development Economics," 1999, *World Development*, 27(8): 1397-1411

## OTHER PUBLICATIONS

- [14] Fruehwirth, Jane Cooley “The science is in: Faith can be effective against adolescent depression,” *America Magazine*, April 19, 2019
- [15] Cooley, Jane "Classroom Peer Effects", *The New Palgrave Dictionary of Economics*, Eds. Steven N. Durlauf and Lawrence E. Blume, Palgrave Macmillan, 2010 (8 pages)

## WORKING PAPERS

- [16] Aucejo, Esteban, Patrick Coate, Jane Cooley Fruehwirth, Sean Kelly and Zachary Mozenter “Teacher Effectiveness and Classroom Composition: Understanding Match Effects in Education Production,” reject and resubmit, *Economic Journal*  
*Media mention:* [Education Next Podcast](#)
- [17] Aucejo, Esteban, Jane Cooley Fruehwirth, Sean Kelly “Teachers and the Gender Gap in Reading Achievement,” under review, *Journal of Human Capital*

- [18] Fruehwirth, Jane Cooley, Benjamin Gorman, Krista Perreira “The effect of social and stress-related factors on alcohol use among college students during the Covid-19 pandemic”, revised and resubmitted *Journal of Adolescent Health*
- [19] Fruehwirth, Jane Cooley and Jeffrey Traczynski “Spare the Rod? School Responses to Repeatedly Failing to Meet Accountability Standards”

#### **WORK IN PROGRESS**

- [20] Fruehwirth, Jane Cooley, Benjamin Haynes and Anwen Zhang “Peers Like Me: The Long Run Effects of School Racial Diversity on Mental Health”
- [21] Eden, Tiffany, Jane Cooley Fruehwirth and Krista Perreira “Transitions from High School to College: Learning How to Grow in the Age of Covid-19”
- [22] Fruehwirth, Jane Cooley, Emilia Mazzolenis, Mollie Pepper and Krista Perreira “Stress, eating disorders, exercise and sleep in the first-year of college”
- [23] Fruehwirth, Jane Cooley, Anne Drescher, Katherine Ingram, Marisa Marraccini and Krista Perreira “Understanding trajectories of depression and social isolation and relationship to coping styles among first-year college students during the Covid-19 pandemic”
- [24] Fruehwirth, Jane Cooley and Krista Perreira “Academic stressors and college student mental health”

#### **TEACHING ACTIVITIES**

##### GRADUATE COURSES

Labor Economics, UNC-CH, Spring 2016 (10 students), Spring 2017 (7 students), Spring 2018 (7 students), Fall 2018 (7 students), Fall 2020 (6 students)  
Applied Microeconomics Dissertation Workshop, UNC-CH, Spring 2016 (13 students), Spring 2018 (10 students)  
Applied Microeconomics Early Stage Dissertation Workshop, UNC-CH Spring 2016 (8 students), Fall 2017 (6 students)  
Applied Econometrics, Cambridge, Fall 2014 (Diploma, 24 students)  
Applied Microeconomics, Cambridge, Spring 2012 (MPhil)  
Public Finance, Wisconsin, Spring 2008, Fall 2009, Spring 2011

##### UNDERGRADUATE COURSES

Independent study research courses (\*95), UNC-CH  
Fall 2019 (5 students), Spring 2020 (5 students), Fall 2020 (5 students)  
Fall 2021 (1 student)  
Honors Thesis in Economics, UNC-CH, 2019-2020 (20 students), 2020-21 (18 students)  
Economics of Education, UNC-CH, Fall 2018 (11 students), Spring 2017 (18 students)  
Policy Evaluation, Cambridge, Fall 2012, 2014 (155 students)  
Labour Economics, Cambridge, Fall 2011, 2012, 2014 (around 45 students)  
Applied Econometrics, Cambridge, Spring 2012  
Economics of Education, Wisconsin, Fall 2006, Spring 2008, Fall 2009, Spring 2011

##### PHD SUPERVISION (first placement in parentheses)

Martin Braun (expected Spring 2022)  
Kristina Vaughan, co-advisor with David Guilkey, UNC-CH, 2019 (World Bank)

Zachary Mozenter, UNC-CH, 2019 (Bates White)  
Joshua Horvath, UNC-CH, 2018 (CNA)  
Hiren Nisar, Wisconsin, 2011 (Senior Analyst, Abt Associates)

CPC PREDOCTORAL TRAINEE

Mallory Turner, co-preceptor with Carolyn Halpern, UNC-CH, expected 2020

PHD COMMITTEE MEMBER

Aspacia Stafford (public policy), UNC-CH, expected 2021  
Elc Estrera (public policy), UNC-CH, 2021  
Siddhartha Biswas (economics), UNC-CH, 2021  
George Hayward (sociology), UNC-CH, 2020  
Juan Carlos Caro (health policy and management), UNC-CH, 2020  
Nicole Ross (public policy), UNC-CH, 2019  
Teresa Zhou (economics), UNC-CH, 2018  
Chunxiao Li (economics), UNC-CH, 2017  
Brad Shrago (economics), UNC-CH, 2017  
Tan Tran (economics), UNC-CH, 2017  
Ning Fu (economics), UNC-CH, 2017  
Sofoklis Goulas (economics), UNC-CH, 2016  
Marcela Parada Contzen (economics), UNC-CH, 2016  
Mai Seki (economics), Wisconsin, 2011  
Mayu Fujii (economics), Wisconsin, 2011  
Jeff Traczynski (economics), Wisconsin, 2011  
Shannon Mok (economics), Wisconsin, 2011  
Alex Yuskavage (economics), Wisconsin, 2010  
Ben Cowan (economics), Wisconsin, 2010  
Nicholas Mader (economics), Wisconsin, 2010  
Kamil Sicinski (economics), Wisconsin, 2009  
Joshua Cowen (political science), Wisconsin, 2008

MASTERS' THESES SUPERVISED

Carly Shin, UNC-CH, 2020  
Robert Bringe, UNC-CH, 2020  
Matthew Crockett, UNC-CH, 2019  
Sasha Harrison, UNC-CH, 2018  
Katy Ascanio, UNC-CH, 2017  
Samar Alwehaibi, UNC-CH, 2016  
Sarah Rogers, UNC-CH, 2016  
Stephen Hook, Cambridge, 2015  
Cavin Wilson, Cambridge, 2015  
Shuyan Dong, Cambridge, 2012  
Mark Chen, Cambridge, 2012

UNDERGRADUATE RESEARCH SUPERVISION

*Honors Theses Supervised*

Lucas Risinger, UNC-CH, expected 2021  
Sarah Michalak, UNC-CH, 2020  
Chris Burris, UNC-CH, 2018  
Ziad Khreisheh, Cambridge, 2012  
Georgis Parson, Cambridge, 2012

Chris Peacock, Cambridge, 2012  
David Rebelo, Cambridge, 2012  
Rachel Russell, Cambridge, 2012  
Eva Sharma, Cambridge, 2012  
Mary Wang, Cambridge, 2012  
Katharina Werner, Cambridge, 2012

*Summer Undergraduate Research Fellowship (UNC-CH)*  
Gabriela Goodman, 2021

*Economics Department Summer Fellowships (UNC-CH)*  
Deepak Vaidyanathan and Paige Masten, summer 2020  
Patrick Costley and Hannah Olmstead, summer 2019  
Ariella Hirsch and Lilly Winfree, summer 2018

*Undergraduate Research Consulting Team, Office of Undergraduate Research (2019/20)*  
Benjamin Gorman  
Luke Hargraves  
Susan Huynh  
Sarah Parker  
Brittany Wiafe

*Other Undergraduate Research Projects*  
Avra Janz (2021)  
Katherine Krause (2021)  
David Lambert (2020)  
Michael Almaguer (2020)  
Caroline Carpenter (2020)  
Gabriela Goodman (2020)  
Emilia Mazzolenis (2020)  
Mollie Pepper (2020)

#### PROFESSIONAL DEVELOPMENT COURSES

Participant, Tara Mohr's Playing Big Course Women's Leadership Training, Spring 2020

Participant, Coach Approach Training: The Foundations, March 2020

Participant, Introduction to Focus Groups, Odum Short Course, January 23, 2020

Participant, Post-tenure Pathfinders, National Center for Faculty Diversity and Development, Spring 2019

Participant, Faculty Success Program, National Center for Faculty Diversity and Development, Spring 2018

Mentee, CeMENT Mentoring for Junior Faculty, Committee for the Status of Women in the Economic Profession, American Economic Association, 2007

## PROGRAM DEVELOPMENT

### *Trellis Program*

*Purpose:* To support the development and thriving of student researchers through promoting effective time management, writing practices and small group support

*Development:* Worked with 3 undergraduate students (Perry Healy, Jingjing Jacobson, Takoda Ren) through Comp 523 and later paid work to develop Trellis Platform (2019-20)

*Pilot:* Piloted platform with undergraduate and PhD students to provide extra support for honors thesis and dissertation writing (2020-21)

## GRANTS

The Collaboratory, “Transitions: A Study of College Life and Well-Being”, Jane Cooley Fruehwirth (PI), Krista Perreira (co-PI), \$30,000 [pending].

UNC Ideas, “Transitions: A Study of College Life and Well-Being”, Jane Cooley Fruehwirth (PI), Krista Perreira (co-PI), \$19,995 [pending].

Spencer Foundation “College in the Age of COVID: Lasting Effects of the COVID-19 Pandemic on Academic and Mental Health Outcomes of College Student”, Jane Cooley Fruehwirth (PI), Krista Perreira (co-PI), Steve Hemelt (co-I) \$443,217 [pending].

Russell Sage Foundation “Resilience in the Age of COVID-19: Understanding Disparities in the Effects of the Pandemic on Resilience and Educational Outcomes of College Students Using Longitudinal Data” Jane Cooley Fruehwirth (PI), Krista Perreira (co-PI) \$49750 [pending].

RTI Forethought Initiative “Collaborating to Thrive: Empowering students to research and support well-being on campus and beyond” Jane Cooley Fruehwirth joint with Shauna Cooper, Grace Gowdy, Stephanie Hawkins, Steve Hemelt, Krista Perreira, Josh Pretlow and Alyssa Rockenbach, up to \$5 million [letter of interest, pending].

Economics Department Summer Undergraduate Research Team funding, “Transitions II: College in the Age of Covid-19”, Summer 2021, \$10,000

Carolina Population Center seed funding to provide support for GRA time and software needed for Transitions project, November 2019-May 2020, \$3200.

Undergraduate Research Consultant Team support from Office of Undergraduate Research to support preliminary survey data collection on college student mental health and the transition to college for Transitions project, August 2019-May 2020, \$9994.

Institute for Education Sciences “Tailoring Teaching to Fit the Class: Teaching Practice and Classroom Composition under Random Assignment,” Jane Cooley Fruehwirth (PI), Esteban Aucejo (co-PI), Patrick Coate (co-PI), Sean Kelly (co-PI), Ken Bollen (co-I) July 1, 2017-June 30, 2021, \$597,706

Junior Faculty Development Award, UNC, “Religiosity, Health, College and Occupational Choices from Adolescence to Early Adulthood,” January 2017 to December 2017, Jane Cooley Fruehwirth (PI), \$7500

University Research Council, UNC, “Friends and Depression in Adolescence,” May 2016-April 2018, \$7500

Research and Study Assignment, UNC, Spring 2016, 1 course reduction.

Philip Leverhulme Prize, recognizing outstanding early career researchers across disciplines, Jane Cooley Fruehwirth (PI), January 2013 to June 2014, £70,000

British Academy Mid-Career Fellowship, 2013-2014, "Parents vs. Peers: The Determinants of Achievement Gaps as Students Age," £92,329

Newton Trust Small Grant, University of Cambridge, Summer 2013

Graduate School Research Committee Award, University of Wisconsin-Madison, 2007-08, 2008-09, 2010-11

Institute for Research on Poverty Small Grant, University of Wisconsin-Madison, Summer 2007, 2008, 2009-10

## **PROFESSIONAL SERVICES**

### PROFESSIONAL AFFILIATIONS

National Bureau of Economic Research, Education Program

Institute for Research on Poverty

Human Capital and Economic Opportunity Global Working Group

### SEMINAR PRESENTATIONS

- 2021 Ludwig-Maximilian University of Munich, University of Memphis, NC State University School of Education, Population Association of America
- 2020 Society for Research on Educational Effectiveness (cancelled due to pandemic), UNC System Board of Governors
- 2019 Yale, AEFPP, Rochester, Triangle Applied Microeconomics Conference
- 2018 U Kentucky/Cleveland FRB Workshop on Economics of Education, NBER Summer Institute
- 2017 ASSA meetings, NC State, SOLE, Lehigh, IADB
- 2016 UNC Education Inequality working group, SOLE, IRP Summer Research Workshop, UNC Greensboro, William and Mary, University of Western-Ontario
- 2015 UNC-Chapel Hill
- 2014 LSE, Tinbergen Institute, Ludwig-Maximilian-University Munich, Institute for Research on Poverty Summer Research Workshop, British Education Research Association, Notre Dame, UNC-Chapel Hill
- 2013 CAGE Conference: Human Capital and Productivity, CREST, University of Oslo, Cambridge Empirical Micro Seminar, Leicester
- 2012 Royal Economic Society Meetings, IZA/SOLE
- 2011 University of Maryland, Cambridge Empirical Micro Seminar
- 2010 Institute for Research on Poverty seminar series, University of Minnesota, Institute of Education, University College London, University of Bristol, International Workshop on Applied Economics of Education, EALE/SOLE, KU Leuven Conference on Education Policy, NBER Fall Economics of Education Meetings, Cambridge, University of Essex, Brown, Georgia State University Sweat Symposium



- 2009 Econometric Society Winter Meetings, University of Kentucky Center for Poverty Research, Cornell, Rochester, AEFA, Texas A&M, SOLE, Simon Fraser University, University of Victoria, University of Illinois-Chicago, NBER Fall Education Meetings
- 2008 AEA, University of Florida, University of California-Berkeley, University of Virginia, IZA/SOLE Transatlantic Meetings, North American Summer Econometric Society Meetings
- 2007 AEFA, Institute for Research on Poverty Summer Research Workshop, NASM, SITE, University of Missouri, APPAM, Michigan State, UW Interdisciplinary Training Program in Education Sciences, University of Chicago Analytical Labor Economics Conference, Institute for Research on Poverty Seminar Series, Cleveland Federal Reserve Bank Community Affairs Research Seminar Series
- 2006 Brown, Clemson, Notre Dame, Ford School, Northwestern, Penn State, Princeton, University of Chicago, University of Illinois-Urbana Champaign, University of Wisconsin-Madison, Virginia Tech, Yale

#### REFEREEING SERVICE

*American Economic Review, AEJ: Applied Economics, B.E. Journal of Economic Analysis and Policy, Econometrica, Economic Journal, Economics of Education Review, Economic Inquiry, Educational Evaluation and Policy Analysis, European Journal of Political Economy, Feminist Economics, International Economic Review, Journal of Applied Econometrics, Journal of Economic Behavior and Organization, Journal of Economic Growth, Journal of Economic Literature, Journal of Human Capital, Journal of Human Resources, Journal of Labor Economics, Journal of Business and Economic Statistics, Journal of Policy Analysis and Management, Journal of Political Economy, Journal of Public Economics, Labour Economics, Oxford Bulletin of Economics and Statistics, Quantitative Economics, Quarterly Journal of Economic, RAND Journal of Economics, Review of Economics and Statistics, Review of Economic Studies, Review of Network Economics, Southern Economic Journal, Journal of Human Capital, World Development*