

Nathan D. Grawe

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EDUCATION

Ph.D. Economics, University of Chicago, Chicago, IL August 2001
M.A. Economics, University of Chicago, Chicago, IL March 1998
B.A. St. Olaf College (Phi Beta Kappa), Northfield, MN May 1996

EMPLOYMENT

Ada M. Harrison Distinguished Teaching Professor of the Social Sciences, Carleton College 2015-present
Professor, Carleton College 2014-present
Chair, Department of Economics 2014-2017
Associate Dean of the College, Carleton College, 2009-2012
Associate Professor, Carleton College, 2007-2014
Assistant Professor, Carleton College, 2002-2007
Visiting Instructor and Assistant Professor, Carleton College, 1999-2002

SELECTED PROFESSIONAL SERVICE

Editor, *Numeracy*, the flagship journal of the National Numeracy Network, 2015-present
Executive Editor, 2019-present
National Numeracy Network, Secretary/Treasurer, 2011-2013
Minnesota Economic Association, Board of Directors, 2005-2008

BOOKS

Grawe, Nathan D. Forthcoming. *The Agile College: How Institutions Successfully Navigate Demographic Changes*. Baltimore, MD: Johns Hopkins University Press.
_____. 2018. *Demographics and Demand for Higher Education*. Baltimore, MD: Johns Hopkins University Press.

ARTICLES

Nathan D. Grawe. 2020. "From R_0 to the Herd: A Review of *The Rules of Contagion* by Adam Kucharski," *Numeracy* 13(2): Article 10.
_____. 2019. "The Enrollment Crash Goes Deeper Than Demographics," *Chronicle of Higher Education* November 1.

- _____. 2019. "Americans Are Having Fewer Kids. What Will That Mean for Higher Education?" *Harvard Business Review* October 17.
- Vacher, H. L., and Nathan D. Grawe. 2019. "Roots and Seeds: Finding Our Place in the Social Practice Nexus That Is Quantitative Literacy," *Numeracy*, 12(2): Article 1.
- Grawe, Nathan D. 2019. "Advancing the Liberal Arts in the Face of Demographic Change," *Liberal Education* 104(4): 6-11.
- Grawe, Nathan D. and Kristin O'Connell. 2018. "Using the Quantitative Literacy and Reasoning Assessment (QLRA) for Early Detection of Students in Need of Academic Support in Introductory Courses in a Quantitative Discipline: A Case Study," *Numeracy* 11(1): Article 5.
- Archibong, Belinda; Harrison Decker; Nathan D. Grawe; Martha Olney; Carol Rutz; and David Weiman. 2017. "Forging On-Campus Connections to Enhance Undergraduate Student Reasoning, Writing, and Research Skills," *Journal of Economic Education*, 48(4): 317:326.
- Rutz, Carol and Nathan D. Grawe. 2017. "How Writing Program Best Practices Have Transformed Carleton College," *Peer Review*, 19(1): 13-16.
- Bourne, Jenny and Nathan D. Grawe. 2015. "How Broad Liberal Arts Training Produces PhD Economists: Carleton's Story," *Journal of Economic Education*, 46(2):166-173.
- Grawe, Nathan D. 2015. "What Are You Reading: An Analysis of 100,000 *Numeracy* Article Downloads," *Numeracy*, 8(2): Article 1.
- Carpenter, Scott D.; Nathan D. Grawe; Susan Jaret McKinstry; and Louis E. Newman. 2015. "Creating a Culture Conducive to Integrative Learning," *Peer Review*, 16/17(4/1): 14-15.
- Grawe, Nathan D. 2014. "Toward a Numerate Citizenry: A Progress Report," *Peer Review*, 16(3): 31.
- _____. 2013. "Does Completion of Quantitative Courses Predict Better Quantitative Reasoning-in-Writing Proficiency?" *Numeracy*, 6(2): Article 11.
- _____. 2012. "Achieving a Quantitatively Literate Citizenry: Resources and Community to Support National Change." *Liberal Education*, 98(2): 30-35.
- _____. 2011. "The Potential for Teaching Quantitative Reasoning across the Curriculum: Empirical Evidence from Carleton College." *International Journal for the Scholarship of Teaching and Learning*, 5(1).
- _____. 2011. "Beyond Math Skills: Measuring Quantitative Reasoning in Context." In J. D. Penn (ed.). *Measuring Complex General Education Student Learning Outcomes. New Directions in Institutional Research, Special Issue: Assessing Complex General Education Student Learning Outcomes*, 2011(149): 41-52.
- _____. 2010. "Primary and Secondary School Quality and Intergenerational Earnings Mobility." *Journal of Human Capital*, 4(4): 331-364.
- _____. 2010. "Bequest Receipt and Family Size Effects." *Economic Inquiry*, 48(1): 156-162.
- _____, Neil S. Lutsky, and Christopher J. Tassava. 2010. "A Rubric for Assessing Quantitative Reasoning in Written Arguments." *Numeracy*, 3(1): Article 3.
- Grawe, Nathan D. and Carol A. Rutz. 2009. "Integration with Writing Programs: A Strategy for Quantitative Reasoning Program Development." *Numeracy*, 2(2): Article 2.

- Rutz, Carol A. and Nathan D. Grawe. 2009. "Pairing WAC and Quantitative Reasoning through Portfolio Assessment and Faculty Development." *Across the Disciplines*, December.
- Grawe, Nathan D. and Jenny B. Wahl. 2009. "Blacks, Whites, and *Brown*: Effects on the Earnings of Men and Their Sons." *Journal of African American Studies*, 13(4): 455-475.
- Grawe, Nathan D. 2008. "The Quality-Quantity Trade-Off in Fertility across Parent Earnings Levels: A Test for Credit Market Failure." *Review of Economics of the Household*, 6(1): 29-45.
- _____. 2007. "A Simulation of Counter-Cyclical Intervention: Lessons in Practice." *Journal of Economic Education*, 13(4): 371-392.
- _____. 2006. "The Extent of Lifecycle Bias in Estimates of Intergenerational Earnings Persistence." *Labour Economics*, 13(5): 551-570.
- _____. 2006. "Family Size and Child Achievement." In John Creedy and Guyonne Kalb, eds. *Research on Economic Inequality, Vol. 13*. Amsterdam: Elsevier.
- _____. 2004. "Reconsidering the Use of Nonlinearities in Intergenerational Earnings Mobility as a Test for Credit Constraints." *Journal of Human Resources*, 39(3): 813-827.
- _____. 2004. "The 3-Day Week of 1974 and Earnings Data Reliability in the Family Expenditure Survey and the National Child Development Study." *Oxford Bulletin of Economics and Statistics*, 66(4): 567-579.
- _____ and Casey B. Mulligan. 2002. "Economic Interpretations of Intergenerational Correlations." *Journal of Economic Perspectives*, 16(3):45-58.

CHAPTERS IN BOOKS

- Grawe, Nathan D. 2014. "Work in Community: Flexible Programming to Support Fulfilling Post-Retirement Careers." In C. Van Ummersen, J.M. McLaughlin, & L.J. Duranleau (Eds.), *Best Practices for Navigating the Transitions*. Sterling, VA: Stylus Publications.
- _____. 2004. "Intergenerational Mobility for Whom? The Experience of *High- and Low-Earnings Sons in International Perspective*." In Miles Corak, ed. *Generational Income Mobility in North America and Europe*. Cambridge: Cambridge University Press.

GRANTS

- "Quantitative Inquiry, Reasoning, and Knowledge in Student Writing." 2007-2011. National Science Foundation (#DUE-0717604), \$499,994.
- "Developing a Community of Assessment, Awareness, and Professional Development for Quantitative Reasoning." 2009-2011. National Science Foundation (Supplemental to #DUE-0717604), \$67,351.
- "Quantitative Reasoning across the Curriculum: Completing the Cultural Change." 2008-2011. W.M. Keck Foundation, \$300,000.

OTHER WORKS

- Grawe, Nathan D. 2019. "International Students and U.S. Higher Education," *Econofact.org* <https://econofact.org/international-students-and-u-s-higher-education>.
- _____. 2019. "Responses to Demographic Change that Move Beyond Admissions." *HigherEdJobs.com* April 23, <https://www.higheredjobs.com/blog/postDisplay.cfm?blog=25&post=1916&Title=Responses%20to%20Demographic%20Change%20that%20Move%20Beyond%20Admissions>
- _____. 2019. "Innovations in Recruitment and the Need to Address Demographic Change." *HigherEdJobs.com* March 18, <https://www.higheredjobs.com/blog/postDisplay.cfm?blog=25&post=1876&Title=Innovations%20in%20Recruitment%20and%20the%20Need%20to%20Address%20Demographic%20Change>
- _____. 2019. "How Demographic Change is Transforming the Higher Ed Landscape." *HigherEdJobs.com* February 18, <https://www.higheredjobs.com/blog/postDisplay.cfm?blog=25&post=1843&Title=How%20Demographic%20Change%20Is%20Transforming%20the%20Higher%20Ed%20Landscape>
- _____. 2018. "Demographic Changes Pose Challenges for Higher Education," *Econofact.org*, <https://econofact.org/demographic-changes-pose-challenges-for-higher-education>.
- _____. 2013. "Teaching with Data," <http://serc.carleton.edu/sp/library/twd/index.html>.
- _____. 2013. "Developing Quantitative Reasoning," <http://serc.carleton.edu/sp/library/qr/index.html>.
- _____. 2008. "Education and Economic Mobility" as part of the Pew-funded Economic Mobility Project.
- _____. 2008. "Wealth and Economic Mobility" as part of the Pew-funded Economic Mobility Project.
- _____. 2001. *Intergenerational Mobility in the US and Abroad: Quantile and Mean Regression Measures*, PhD Thesis, University of Chicago.
- _____. 2000. "An Economic Use for the Gotcha/Sympathetic Pain Duality." *The Humor Quotient Newsletter*, September.

SELECT CONFERENCE PAPERS/PRESENTATIONS

- Grawe, Nathan D. 2020. "Demographics and the Demand for Higher Education." Council of Independent Colleges President's Institute, Marco Island, FL.
- _____. 2019. "Demographics and the Demand for Higher Education." Associated Colleges of the Midwest dean's meeting, St. Paul, MN.
- _____. "Demographics and the Demand for Higher Education." Central Association of College and University Business Officers annual meeting, Minneapolis, MN.
- _____. "Demographics and the Demand for Higher Education." Achieving the Dream Data & Analytics Summit, College Park, MD.

- _____. “The Bleak Enrollment Outlook.” Inside Higher Education conference on The Admissions Challenges Facing Private Colleges, San Francisco, CA.
- _____. 2019. “Demographics and the Demand for Higher Education.” ECMC Foundation, Los Angeles, CA.
- _____. 2019. “Demographics and the Demand for Higher Education.” Association of Research Libraries annual meeting, Minneapolis, MN.
- _____. 2019. “Demographic Destinies: How Population Shifts Will Play Out in Public Higher Ed.” Inside Higher Education conference on The Future of Public Higher Ed, Baltimore, MD.
- _____. 2019. “Demographic Change and the Demand for Higher Education.” LVAIC Facing Higher Education’s Future Series, Lafayette, PA.
- _____. 2019. “Demographics and the Demand for Higher Education.” Pennsylvania Senate Majority Policy Committee, Harrisburg, PA.
- _____. 2019. “Reframing the Narrative: Leadership Toward a New Economic Model in Higher Education” panel discussion. Liberal Arts Illuminated, Collegeville, MN.
- _____. 2018. “Demographics and the Demand for Higher Education: Observations for the Minnesota State System.” Reimagining Minnesota State Forum, Minneapolis, MN.
- _____. 2018. “Demographics and the Demand for Higher Education.” Consortium on Financing Higher Education annual meeting, Oberlin, OH.
- _____. 2018. “Demographics and the Demand for Higher Education.” New England Commission of Higher Education annual meeting, Boston, MA.
- _____. 2018. “The Shrinking Applicant Pool.” Inside Higher Education conference on The Admissions Challenges Facing Private Colleges, Washington, DC.
- _____. 2018. “Demographics and Diversity: College’s Students Today and into the Future.” Council of Independent College’s Institute on Diversity, Civility, and the Liberal Arts, Atlanta, GA.
- _____. 2018. “Demographic Change and the Demand for Higher Education.” Association of Institutional Research in the Upper Midwest Annual Meeting, Minneapolis, MN.
- _____. 2018. “Demographic Change and the Demand for Higher Education.” Council of Independent College’s Institute for Chief Academic Officers with Chief Financial and Chief Enrollment Management Officers, St. Louis, MO.
- _____. 2018. “Demographics and the Demand for Higher Education.” Education Writers Association Higher Education Seminar Fall 2018, Las Vegas, NV.
- _____. 2018. “Demographics of Higher Education.” State Higher Education Executive Officers Association Annual Meeting, Park City, UT.
- _____. 2018. “Introduction to the Higher Education Demand Index (HEDI).” American Association of Collegiate Registrars and Admissions Officers Annual Meeting, Orlando, FL.
- _____. 2017. “Introduction to the Higher Education Demand Index (HEDI).” American Association of Collegiate Registrars and Admissions Officers Strategic Enrollment Management Conference, Phoenix, AZ.

- _____. 2016. "The Higher Education Demand Index: Probability-Based Estimates of College Attendance through 2019." Higher Education Data Sharing consortium annual meeting, Asheville, NC.
- _____. 2014. "Counting QR and Making QR Curricula Count." National Numeracy Network annual meeting, Northfield, MN.
- _____. 2013. "Advancing Quantitative Reasoning on Campus: Fostering a Cultural Conspiracy." Western Association of Schools and Colleges Retreat on Core Competencies: Quantitative Reasoning and Assessment in the Majors.
- _____ and Tania Mitchell. 2013. "Civic Learning and Quantitative Reasoning Across the Curriculum." Pre-conference workshop at Association of American Colleges and Universities General Education and Assessment: A Sea Change in Student Learning. Boston, MA.
- Gaze, Eric; Nathan D. Grawe, Bernie L. Madison, and Donna L. Sundre. 2013. "Making Quantitative Reasoning Count." Association of American Colleges and Universities annual meeting, Atlanta, GA.
- Grawe, Nathan D. 2012. "Yardsticks for Quantitative Literacy & Reasoning: Metric, English, or Celsius?" Project Kaleidoscope workshop *Next Generation STEM Learning: Investigate, Innovate, Inspire*, Kansas City, MO.
- _____. "Course Correlates with QR Proficiency: A Transcript Analysis." National Numeracy Network, New York, NY.
- _____. 2010. "Many Women Work, Wealthy People Have More Money, and Other Important Things I've Learned from Reading Student Papers." Project Kaleidoscope workshop *Alternative Strategies for the Assessment of Quantitative Reasoning among Undergraduates*, Northfield, MN.
- _____ and Carol Rutz. 2010. "WAC as Platform for Integrated Learning." Writing across the Curriculum annual meeting, Bloomington, IN.
- Ciner, Liz and Nathan D. Grawe. 2010. "Situating Quantitative Literacy (QL) in the Context of Argument: A Strategy for Rapid Establishment of QL across the Curriculum." Association of American Colleges and Universities annual meeting, Washington, DC.
- Ciner, Elizabeth, Nathan D. Grawe, and Carol A. Rutz. 2009. "Faculty Development: A Curricular Approach." Presented at the Collaboration for the Advancement of College Teaching and Learning January meeting.
- Fox, Sean, Nathan D. Grawe, Ellen Iverson, and Cathryn Manduca. 2008. "Quantitative Reasoning—Across the Curriculum, Across Campus, and Beyond." POD meeting, Reno, NV.
- Grawe, Nathan D. 2008. "Assessing Quantitative Reasoning in Student Writing: A QuIRKy Experience." Keynote address at the New England Educational Assessment Network March meeting.
- _____. 2008. "Grant Writing in Support of Quantitative Literacy Programs." National Numeracy Network annual meeting, New London, NH.
- _____. 2008. "LEAP Goals and Faculty Development: A Curricular Approach." Association of American Colleges and Universities annual meeting, Washington, DC.
- _____. 2008. "The Use, Mis-Use, and Missed-Use of Quantitative Reasoning in Student Writing." Project Kaleidoscope workshop *Alternative Strategies for the Assessment of Quantitative Reasoning among Undergraduates*, Northfield, MN.

- _____, Paula Lackie, Neil Lutsky, Cathryn A. Manduca, and Heather Tomkins. 2008. "Writing with Numbers Workshop" in conjunction with the National Numeracy Network and Northeast Consortium on Quantitative Literacy annual meetings, New London, NH.
- Grawe, Nathan D. 2007. "Primary and Secondary School Class Size and Intergenerational Earnings Mobility." Association for Public Policy Analysis and Management, Washington, DC.
- _____. 2007. "Primary and Secondary School Class Size and Intergenerational Earnings Mobility." Intergenerational Transmission of Socioeconomic Outcomes: Identifying the Underlying Mechanism (hosted by the Institute for Labor Research), Bonn, Germany.
- _____. 2006. "A Simulation of Counter-Cyclical Intervention: Lessons in Practice." American Economic Association poster session, Boston, MA.
- _____. (Jenny B. Wahl co-author). 2006. "Blacks, Whites, and *Brown*: Effects on the Earnings of Men and Their Sons." Midwest Economics Association, Chicago IL.
- Grawe, Nathan D. 2004. "Testing Alternative Models of the Quality-Quantity Trade-Off." Society of Labor Economists, San Antonio, TX.
- _____. 2003. "The Quality-Quantity Fertility Trade-Off in Germany and Britain." American Economic Association, Washington, D.C.
- _____. 2002, 2001. "Intergenerational Mobility for Whom? The Experience of High- and Low-Earnings Sons in International Perspective." Statistics Canada, Ottawa, Canada and DIW, Berlin, Germany.
- _____. 1999. "Lifecycle Bias in the Estimation of Intergenerational Income Mobility." Illinois Economic Association, Chicago, IL.

INVITED QUANTITATIVE REASONING LECTURES

- 2015: Hawkeye Community College
- 2014: Endicott College
- 2012: University of Minnesota Department (Department of Agronomy and Plant Genetics)
- 2011: Bates College in cooperation with Bowdoin College, Michigan State University, University of Toronto (Department of Near and Middle Eastern Civilizations), Central Michigan University, Colby Sawyer College, Lehman College
- 2010: St. Olaf College, DePauw University, Beloit College, Quinnipiac University, Keene State College
- 2009: College of New Jersey, Minnesota State Colleges and Universities, Fairfield University Center for Academic Excellence, Berkshire Community College
- 2008: Collaboration for the Advancement of College Teaching and Learning (with Neil Lutsky, and Carol A. Rutz)

INVITED QUANTITATIVE REASONING WORKSHOPS

(one- to three-day workshops promoting faculty professional development and assessment)

- 2019: Mankato State University
- 2018: DePauw University

2015: Dickinson College, Endicott College
2014: University of Rhode Island
2013: Oberlin College, St. Lawrence University, New England Institute of Technology
2012: New England Institute of Technology
2011: Beloit College, Colby Sawyer College
2010: Iowa State University, Edmonds Community College, Keene State College,
Quinnipiac University
2009: Wellesley College, Morehouse College, College of New Jersey, Fairfield
University Center for Academic Excellence
2008: St. Lawrence University, St. Francis University

AWARDS AND HONORS

Carleton College Large Faculty Development Endowment Grant, Fall 2018
Carleton College Large Faculty Development Endowment Grant, Spring 2005
Statistics Canada Tom Symons Research Fellowship, 1999-2000
National Science Foundation Fellow, 1997-2001
University of Chicago Fellow, 1996-1997

SELECTED CAMPUS INVOLVEMENT

Accreditation Sub-Committee Team Lead for “Teaching and Learning: Evaluation and Improvement” (2018-2019)
Budget Committee (2003-2004, 2006-2008, 2014-2016)
Summer Writing Program Instructor (2002, 2003, 2005-2008, 2012, 2013, 2015)
Summer Quantitative Reasoning Institute Instructor (2016, 2017)
Facilities Master Planning Committee (2013-2014)
College Council (2003-2004, 2014-2016)
Convener, Strategic Planning Working Group on the Competition (2011-2012)
Director, QUIRK steering committee (2007-2011)
Accreditation Sub-Committee Member for “Student Learning and Effective Teaching” (2007-2009)
Summer Teaching Institute Professor (2006)
Faculty Council (2002-2004)
Chair, Junior Faculty Affairs Committee (2002-2003)
Carleton College Phi Beta Kappa Chapter President (2001-2002), Vice President (2000-2001), and Secretary (2002-2003)