



INDUSTRY EXPERIENCE

Economist, OnPoint Analytics, Inc., 2024 – Present:

Dr. Miguel Henry is an Economist at OnPoint with over 10 years of experience across economic consulting, industry, academia, and U.S. federal government. With his economic expertise he has supported experts and staff on diverse healthcare antitrust litigation matters, primarily within the pharmaceutical industry.

EDUCATION

Washington State University, Pullman, Washington

Ph.D. Economics | 2012 | Title: “Empirical Models of Economic Choice Processes”

Washington State University, Pullman, Washington

M.S. Statistics | 2010

University of Nevada, Reno, Reno, Nevada

M.S. Resource and Applied Economics | 2005

Universidad Austral de Chile, Valdivia, Chile

B.S. Forest Engineering | 1999 | Magna Cum Laude

PUBLICATIONS

Baum, C.F. and M. Henry, 2022, “Socioeconomic and Demographic Factors influencing the Spatial Spread of COVID-19 in the United States,” *International Journal of Computational Economics and Econometrics*, 12(4): 366-380. Available at the World Health Organization COVID-19 Research Database:

Mittelhammer, R.C., Judge, G. and M. Henry, 2022, “An Entropy-Based Approach for Nonparametrically Testing Simple Probability Distribution Hypotheses,” *Econometrics*, 10(1): 5,

Henry, M. and G. Judge, 2019, “Permutation Entropy and Information Recovery in Nonlinear Dynamic Economic Time Series,” *Econometrics*, 7(1): 10.

Henry, M., Mittelhammer, R.C. and J.B. Loomis, 2018, “An Information-Theoretic Approach to Estimating Willingness to Pay for River Recreation Site Attributes,” *Water Resource and Economics*, 21: 17–28.

Neumark, D., Bradley, C, Henry, M. and B. Dahman, 2015, “Work Continuation While Treated for Cancer: The Role of Workplace Accommodations,” *Industrial and Labor Relations Review*, 2015, 68(4): 916 – 954.

Henry, M. and F. Pascual, 2012, “Inference for the First Order Statistic Distribution Based on Masked Exponential Distributions with Two Independent Competing Risks,” *Interstat journal*.

Henry, M., 2000, "Proposition and application of a methodology of environmental impacts assessment generated by forest operations," *Chile Forestal*.

OTHER PUBLICATIONS AND WORKING PAPERS

Baum, C.F., Garcia-Suaza, A., Henry, M. and J. Otero. "Drivers of COVID-19 waves in U.S. counties: A wave-level analysis," Working paper.

Henry, M., Robertson, J. and R. Chadarevian, 2017, "Do Drug Fee Schedule Based on AWP Have an Effect on Prices Paid for Drugs in Workers Compensation?" NCCI Research Brief.

Peterson, J., Smith, C., Leatherman, K., Mankin, K., Marsh, T. and M. Henry, 2009, "Integrating Economic and Biophysical Models to Assess the Impacts of Water Quality Trading," Final Technical Report to the USEPA-NCER. Washington, D.C., 2009.

Henry, M. McCracken and L. Elbakidze, "Modeling Consumer Bidding Behavior on Food Items: Application from a Two-Stage Sequential BDM Field Experiment," Working paper.

Henry, M. and D. Dong, "Assessing U.S. Household Purchase Dynamics for Dietary Fiber using Scanner Panel Data," Working paper.

SCHOLARSHIPS AND AWARDS

Outstanding Summer Ph.D. Economist Intern. Honorable Mention in ERS – USDA, 2011

Outstanding Graduate Student Scholarship, Foster Research, College of Natural Resources, University of Idaho, Moscow, ID, U.S.A., 2006

Outstanding Graduate Student Scholarship, College of Agriculture, Biotechnology and Natural Resources, University of Nevada, Reno, NV, U.S.A., 2005

Best thesis, Maximum distinction, Chilean Corporation of Wood and Chilean Forestry Research Institute. Chile, 2000

Effort, Dedication, and Academic Performance Recognition, College of Forest Engineers of Chile, 2000

PRIOR EMPLOYMENT

Economist, Greylock McKinnon Associates (GMA), December 2016 – October 2023

- Supported experts and GMA staff in a variety of economic consulting projects, predominantly focused on litigation within the healthcare markets, with a special emphasis on the pharmaceutical sector.
- Oversaw the planning, execution, and completion of projects.
- Involved in writing, preparing, and submitting expert reports.
- Conducted literature reviews, designed research methodologies, and performed data extraction and configuration. Engaged in comprehensive data analysis, including the development of statistical models and the critique of analyses conducted by opposing experts.
- Undertook exploratory, descriptive, econometric, and statistical inference analyses throughout all litigation phases. This involved examining allegations of improper marketing, fraudulent promotion,

and the calculation of economic damages and market power to identify anticompetitive behaviors by firms.

- Utilized a broad array of data sources, including market-level data (e.g., IQVIA integrated promotional services, retail and wholesale data), administrative data, proprietary sales, claim panel data, and various public datasets.
- Modeled demand and performed econometric estimation of price elasticities using demand system estimation approaches and time-series models. Also performed econometric modeling of damages using claim panel data and conducted econometric event studies for drug patent settlements utilizing financial data.

SAMPLE OF CASES AND ASSIGNMENTS

- *In re Avandia Marketing, Sales Practices and Products Liability Litigation, United States District Court of Pennsylvania, Case No. 2:10-cv-02475-CMR.* (developed and implemented aggregate time-series model, to quantify volume and price impact of illegal promotion)
- *In re Solodyn (Minocycline Hydrochloride) Antitrust Litigation, United States District Court for the District of Massachusetts, Case No. MDL 14-md-2503-DJC.* (developing a demand system model to define product market and performing multi-firm econometric event studies on drug patent settlements)
- *In re Loestrin 24 Fe Antitrust Litigation, United States for the District Court of Rhode Island, Case No. MDL 2472.* (develop and estimate econometric trend-break demand models on alternative therapies)
- *In re Sheet Metal Workers Local No. 20 Welfare, et al. vs. CVS Pharmacy, The United States District Court for the District of Rhode Island.* (applying to extrapolate damages for other states pharmacy claims data)
- *In re State of Washington, vs. Purdue Pharma L.P.; Purdue Pharma Inc.; The Purdue Frederick Company; DOES 1 through 99; and DOE CORPORATIONS through 99.* (quantified impact of opioid drug promotion (detailing) on sales of opioids using event studies at the physician-level)
- *In re United States ex rel. Terrence Barret, and on Behalf of various States, Plaintiffs, vs. ALLERGAN, INC., Defendant. United States District Court of Central District of California, Case No. 8:18-cv-00203.* (develop empirical analyses to measure effect of cosmetic Botox prescribing on Botox drug promotion)
- In consultation with Tabors Caramanis Rudkevich – an energy and economics consulting firm (identified and developed a series of recommendations using electricity consumption data to assess and quantify the distributional impacts of electricity rate design structures on U.S. household expenditures)

Economist, National Council on Compensation Insurance Holdings, Inc., June 2014 – December, 2016

- Conducted econometric research from conception to final report to deepen NCCI's insights into core issues affecting its stakeholders and the workers' compensation insurance market.
- Conducted quantitative finance research aimed at producing regulatory rate filings. The process necessitated modeling the term structure of interest rates to construct the yield curve through time-series analysis. The outcomes of this research were instrumental in estimating the rate of return for insurers issuing workers' compensation policies at proposed rates.
- Consulted with NCCI cross-sectional teams on different matters.

Visiting Assistant Professor of Econometrics and Statistics, Department of Economics, University of Oklahoma, August 2013 – May 2014

- Courses taught:
 - Elements of Statistics (Undergraduate course)
 - Econometric Analysis (Senior-undergraduate level course)
 - Advanced Econometrics (Ph.D. field course)

Research Faculty, Dept. of Healthcare Policy and Research, School of Medicine, Virginia Commonwealth University, June 2012 – August 2013

- Worked on issues of health insurance and employment, utilizing survey data to investigate the impact of workplace accommodations on cancer survivors' labor supply outcomes (such as employment and hours worked) and health status.
- Involved as a co-investigator in clinical research, analyzing acute ischemic stroke best practice elements of patients, using multivariate binomial time-series data and statistical control charts.

Graduate Research and Teaching Assistant, School of Economic Sciences, Washington State University, August 2007 – December 2011

- Modeled the underlying behavioral decision process that leads to a person's willingness to pay for river recreation site attributes at the Caribbean National Forest in Puerto Rico, using the single-bounded dichotomous approach as the elicitation protocol and a maximum likelihood-minimum power divergence binary response model and the logit model. Willingness to pay measures and marginal effects of changes in management relevant covariates are estimated.
- Modeled consumer bidding behavior on food items using a two-stage sequential BDM experimental auction mechanism and censored regression models.
- Involved as a co-investigator on a water quality trading research project in which I identified and quantified the impact of the market attributes affecting waste water treatment plants' in Kansas willingness to participate in a water quality market, using primary data from choice experiments and a Generalized Discrete Choice Model.
- Provided teaching assistance, including class instruction, for:
 - Econometrics III (Ph.D. field course). Topics covered included Generalized Method of Moments, Linear and Nonlinear Least Squares and Nonlinear Maximum Likelihood, Nonparametric Estimation and Inference, Spatial Autoregressive Modeling, and Bayesian Estimation and Inference.
 - Fundamentals of Microeconomics and Macroeconomics.
 - Mathematical Statistics (Ph.D. core course).

Economist, Branch of Diet, Health and Safety, Economic Research Service – U.S. Department of Agriculture, May 2011 – September 2011

- Enhanced the analytical usefulness of Nielsen Homescan panel data (nationwide database with a million food-purchase transactions by U.S. households) by merging it with Gladson nutritional databases using heuristic algorithms and multiple sequential imputations based on product information (for example, the Universal Product Code).
- Conducted economic research investigating household purchase dynamics for dietary fiber, using the enhanced Nielsen data and a dynamic Tobit structural econometric model that allows past purchase occasions to affect current purchase decisions for dietary fiber in a framework that captures

simultaneously state dependence, unobserved household heterogeneity preferences, and serial correlation caused by a stationary first-order choice process.

Project Coordinator, National Commission for Scientific and Technological Research (CONICYT) – Chile (analogous to National Science Foundation in the U.S.), July 2001 – July 2003

- Monitored and administrated projects for basic scientific and technological development.

Consultant, Forest Research Institute, Ministry of Agriculture, Santiago, Chile, January 2000 – July 2001

- Helped develop the internationally recognized National Sustainable Forest Management Certification Standard for Chile.
- Drafted guidelines on water conservation, biodiversity, landscape, and soil conservation in collaboration with Chilean experts and the European Economic Union.
- Organized an international conference entitled “Monitoring of Forest Ecosystems” in conjunction with the U.S. Forest Service.

CONFERENCES AND PRESENTATIONS

Baum, C.F. and M. Henry, 2021, “Drivers of COVID-19 outcomes: Evidence from a heterogeneous SAR panel-data model,” Presented at the 2021 US Stata Conference 34, Stata Users Group, and at the 2021 London Stata Conference 18, Stata Users Group.

Baum, C.F. and M. Henry, 2020, “Socioeconomic Factors influencing the Spatial Spread of COVID-19 in the United States,” Presented at the 2020 International WebWorkshop on Computational Economics and Econometrics, Italy, and at the 2020 London Stata Conference 05, Stata Users Group.

Sell, A. and M. Henry. November 2014. “An Analysis of Native Language on Mathematical Student Achievement.” Presented at the 2014 Southern Economic Association Annual Meetings, Atlanta, GA.

Henry-Osorio, M. and R.C. Mittelhammer. August 2012. “An Information-Theoretic Method to Modeling Binary Choices: Estimating Willingness to Pay for Recreation Site Attributes.” Presented at the 2012 AAEA Annual Meeting, Seattle, WA.

Henry-Osorio, M., McCracken, V. and L. Elbakidze. June 2012. “Modeling Consumer Bidding Behavior on Food Items: Evidence from a Two-Stage Sequential BDM Field Experiment.” Presented at the 6th Annual Conference of the American Association of Wine Economists and Food Economists' 2012 AAWE-AFE, Princeton, NJ.

Henry-Osorio, M. and I. Rahkovsky. September 2011. “The Merge of Scanner and Gladson Datasets.” Food for Thought. Presented at ERS – USDA. Washington, DC.

McCracken, V. and M. Henry-Osorio. October 2010. “Development and Perspective of the Apple Processing Industry in the U.S.” Presented at the International seminar: Value added in the Food processing industries. Korean Rural Economic Institute, Seoul, Korea.

Henry, M. and J. Yoder. 2007. “A Comparison of Parametric and Nonparametric Estimates of Willingness to Pay for Recreation Site Attribute at the Caribbean National Park.” Selected paper presented at the Joint Annual Meeting AAEA/WAEA/CAES. Portland, OR. July 29 through August 1. Abstract at the *Journal of Agricultural and Resource Economics*, 2007, 32(3): 565.

Nalle, D. and M. Henry. 2007. "Global Carbon Markets and Implications for Forestry." Presented at INFORMS International Puerto Rico. July 8 - 11.

TEACHING EXPERIENCE

Advanced Econometrics (Ph.D. field course), Spring 2014. University of Oklahoma.
Econometric Analysis, Spring 2014. University of Oklahoma.
Econometric Analysis, Fall 2013. University of Oklahoma.
Elements of Statistics, Fall 2013. University of Oklahoma.
Advanced Econometrics III (Ph.D. field course), Spring 2012. Washington State University.
Fundamentals of Microeconomics, Fall 2009-10. Washington State University.

PROFESSIONAL MEMBERSHIPS

American Economic Association