# Curriculum Vitae September 14, 2020

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### FIELDS OF INTEREST

Research: Resource and Environmental Economics, Industrial Organization, Game Theory, Economics of Uncertainty and Information;

Teaching: Game Theory, Dynamic Optimization, Oil & Gas Economics, Resource and Environmental Economics, Industrial Organization, Econometrics

### **EDUCATION**

6/83	Ph.D., University of California, Berkeley; Dissertation: "Regulation and
	Information in the U.S. Uranium Industry"
9/77-6/79	Flood Fellowship, Univ. of California, Berkeley
6/77	Double A.B. in Economics and Mathematics with honor, University of California,
	Berkeley

### TEACHING AND RESEARCH EXPERIENCE

8/17-	Associate Dean (Research), College of Business, University of Wyoming
7/17-8/17,	
5/18-8/18	Acting Dean, College of Business, University of Wyoming
1/14-12/15	Visiting Professor, London School of Economics, Grantham Institute
1/14-	Visiting Academic, University of Southern Denmark
12/13-	University Fellow, Resources for the Future
12/13	Visiting Researcher, Center for Economic Studies, Faculty of Economics of
	Ludwig-Maximilians-Universität Munich
6/13	Visiting Scholar, Toulouse School of Economics
3/13-5/13	Visiting Scholar, Fondazione Eni Enrico Mattei – Venice
1/13-2/13	Visiting Academic, Energy and Environmental Economics, Bren School of the
	Environment, University of California-Santa Barbara
9/12-12/12	Visiting Academic Fellow, Mansfield College, University of Oxford
6/11-	External Research Associate, Oxford Centre for the Analysis of Resource Rich
	Economies, University of Oxford
9/08-11/08	Visiting Research Fellow, Smith School of Enterprise and the Environment,
	University of Oxford
9/08-11/08	Visiting Academic, Nuffield College, University of Oxford
8/07-	H. A. "Dave" True Chair in Petroleum & Natural Gas Economics, University of
	Wyoming
1/05-	Life Fellow, Clare Hall, Cambridge University
1/05-6/05	Visiting Professor, Agricultural and Resource Economics, University of

	California-Davis
9/04-11/04	Visiting Fellow, Clare Hall, Cambridge University
9/99-10/00	Director of Graduate Studies, University of Wyoming
6/97-7/97	Visiting Scholar, Centre for Resource and Environmental Studies, Australian
	National University
1/97-5/97	Visiting Professor, Economics, University of Waikato
8/96-12/96	Visiting Professor, Graduate School of Economics, Oregon State University
5/94-7/07	Professor, Economics, University of Wyoming
11/94	Mortar Board 'Top Prof,' University of Wyoming
1/90-6/90	Visiting Scholar, Economics, University of Michigan
7/88-5/94	Associate Professor, Economics, University of Wyoming
8/82-6/88	Assistant Professor, Economics, University of Wyoming
1/79-6/82	Graduate Teaching Assistant, Economics, University of California, Berkeley
1/81-1/82	Economist, Cambridge Systematics Incorporated
6/78-12/78	Research Assistant, Electric Power Research Institute

### Refereed Journal Articles

Mason, Charles F., "Transboundary Externalities and Reciprocal Taxes: A Differential Game Approach," forthcoming in *Strategic Behavior and the Environment*, 2020.

Mason, Charles F. and Neil Wilmot, "Jumps in the Convenience Yield of Crude Oil?", *Resource and Energy Economics* Vol. 60, May 2020.

Mason, Charles F., "Regulating Offshore Oil and Gas Exploration: Insights from the Deepwater Horizon Experience in the Gulf of Mexico," *Review of Environmental Economics and Policy*, 2019 v. 13, pp. 149 - 154.

Mason, Charles F., "A Comparison of the Risk of Transporting Crude Oil: Rail vs. Pipeline," *IAEE Energy Forum* 2018, pp. 5-7.

Mason, Charles F. and Gavin Roberts, "Price Elasticity of Supply and Productivity: An Analysis of Natural Gas Wells in Wyoming," *Energy Journal*, 2018 v. 39(SI1) pp. 79-100.

Heyes, Anthony, Andrew J. Leach and Charles F. Mason, "The Economics of Oil Sands." *Review of Environmental Economics and Policy*, 2018 v. 12, pp. 242-263.

Oliver, Matt and Charles F. Mason, "Natural Gas Pipeline Regulation in the United States: Past, Present and Future" *Foundations and Trends in Microeconomics*, 2018 v. 11, pp. 227-289.

Mason, Charles F., Victoria Umanskaya and Edward Barbier, "Trade, Transboundary Pollution, and Foreign Lobbying," *Environmental and Resource Economics*, 2018 v. 70, 223-248.

Mason, Charles F., "The U.S. Market for Uranium: 70 years of History," *Foundations and Trends in Microeconomics*, 2017 v. 11, pp. 141-226.

Mason, Charles F., Stephen Polasky and Nori Tarui, "Cooperation on Climate-Change Mitigation," *European Economic Review*, 2017 v. 99, pp. 43-55.

Mason, Charles F., "Climate Change and Migration: A Dynamic Model," *CESifo Economic Studies*, 2017 v 63, pp. 421-444.

Mason, Charles F. and Remi Morin-Chasse, "An Economic Simulation of the Path to Sustainable Energy: A Dynamic Analysis," *Challenges in Sustainability*, 2017 v. 5, pp. 1-10.

Mason, Charles F. and Neil Wilmot, "Price Discontinuities in the Market for RINs," *Journal of Economic Behavior and Organization*, 2016 v. 132 (Part B), pp. 79-97.

Wood, Aaron D., Charles F. Mason, and David Finnoff, "OPEC, the Seven Sisters, and Oil Market Dominance: An Evolutionary Game Theory and Agent-Based Modeling Approach," *Journal of Economic Behavior and Organization*, 2016 v. 132 (Part B), pp. 66-78.

Sims, Charles, David Finnoff and Charles F. Mason, "Thresholds, tipping points and random events in dynamic economic systems," *Journal of Economic Behavior and Organization*, 2016 v. 132 (Part B), pp. 1-4.

Mason, Charles F., "BP Damage Assessment Under the Clean Water Act: Insights from a Team of One in the Courtroom," *AERE Newsletter*, 2016 v. 36(2), pp. 30-31.

Mason, Charles F. and Owen R. Phillips, "Imminent Entry and the Transition to Multimarket Rivalry: Messy Markets in a Laboratory Setting," *Journal of Economics & Management Strategy* 2016 v. 25, pp. 1018-1039.

Mason, Charles F., "Concentration Trends in the Gulf of Mexico Oil and Gas Industry," *Energy Journal* 2015, v36(SI1), pp. 215-236.

Mason, Charles F., Lucija A. Muehlenbachs, and Sheila M. Olmstead, "The Economics of Shale Gas Development," *Annual Review of Resource Economics* 2015, v. 7, pp. 269-289.

Mason, Charles F., Victoria Umanskaya and Edward Barbier, "On the Strategic Use of Border Tax Adjustments as a Second-Best Climate Policy Measure," *Environment and Development Economics* 2015, v. 20, pp. 539-560.

Mason, Charles F. and Neil Wilmot, "Jump Processes in Natural Gas Markets," *Energy Economics* 2014, v. 46, pp. S69-S79.

Oliver, Matthew E., Charles F. Mason and David Finnoff, "Pipeline Congestion and Natural Gas Basis Differentials: Theory and Evidence," *Journal of Regulatory Economics* 2014, v. 46 261-291.

Mason, Charles F., "The Organization of the Oil Industry, Past and Present," *Foundations and Trends in Microeconomics* 2014, v. 10, pp. 1 – 83.

Atkinson, Scott E. and Charles F. Mason, "Power Generation and Environment: Choices and Economic Trade-offs," *Resource and Energy Economics* 2014, v. 36, 1-5.

Mason, Charles F., "Uranium and Nuclear Power: The Role of Exploration in Framing Public Policy," *Resource and Energy Economics* 2014, v. 36, 49-63.

Oliver, Matthew E., Charles F. Mason and David Finnoff, "Natural Gas Expansion and the Cost of Congestion," *Energy Forum* 2014, pp. 31-32.

Van 't Veld, Klaas, Charles F. Mason and Andrew Leach, "The Economics of CO<sub>2</sub> Sequestration Through Enhanced Oil Recovery," *Energy Procedia* 2013, v. 37, 6909-6919.

Mason, Charles F., "The Economics of Eco-Labeling," *International Review of Environmental and Resource Economics* 2013, v. 6, 341-372.

Mason, Charles F. and Andrew Plantinga, "The Additionality Problem with Offsets: Optimal Contracts for Carbon Sequestration in Forests," *Journal of Environmental Economics and Management* 2013, v. 66 1-14.

Wilmot, Neil and Charles F. Mason, "Jump Processes in the Market for Crude Oil," *The Energy Journal* 2013, v 34.

Mason, Charles F., Erwin Bulte and Richard D. Horan, "Banking on Extinction: Endangered Species and Speculation," *Oxford Review of Economics and Policy*, 2012, v. 28, 180-192.

Mason, Charles F., "On Equilibrium in Resource Markets with Scale Economies and Stochastic Prices," *Journal of Environmental Economics and Management*, 2012, v. 64, 288-300.

Cook, Benjamin R. and Charles F. Mason, "Enhanced Oil Recovery: Going Beyond Conventional Extraction," *IAEE Energy Forum*, Fall 2012, 21-23.

Leach, Andrew, Charles F. Mason and Klaas van 't Veld, "Economic Co-optimization of Enhanced Oil Recovery and Carbon Sequestration" *Resource and Energy Economics*, 2011, v. 33, 893-912.

Mason, Charles F., "Eco-Labeling and Market Equilibria with Noisy Certification Tests," *Environmental and Resource Economics*, 2011, v. 48, 537-560.

Mason, Charles F., "On Stockpiling Natural Resources," *Resource and Energy Economics*, 2011 v. 33, 398-409.

List, John and Charles F. Mason, "Are CEOs Expected Utility Maximizers?", *Journal of Econometrics* 2011 v. 162, 114-123.

Mason, Charles F., "Certification of Socially Responsible Behavior: Eco-Labels and Fair-Trade Coffee," *Journal of Food and Agricultural Industrial Organization*, December 2009, v. 7(2), available online at http://www.bepress.com/jafio/vol7/iss2/.

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Tarui, Nori, Charles F. Mason, Stephen Polasky and Greg Ellis, "Cooperation in the Commons with Unobservable Actions", *Journal of Environmental Economics and Management* January 2008 v 55(1), pp. 37-51.

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Mason, Charles F. and Stephen Polasky, "What Motivates Membership in Non-Renewable Resource Cartels?: The Case of OPEC," *Resource and Energy Economics* November 2005 27(4), pp. 321-342.

Phillips, Owen R., Lawrence R. Weatherford, Charles F. Mason and Mitch Kunce "Passenger Leaks and the Fate of Small Community Air Service," *Economic Inquiry*, October 2005 v 43(4), pp. 785-794.

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Bulte, Erwin, Charles F. Mason and Richard D. Horan, "Betting on Extinction: Endangered Species and Speculation," *Land Economics*, Nov. 2003 v 79(4), pp. 460-471.

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Cason, Timothy N. and Charles F. Mason, "Uncertainty, Information Sharing and Collusion in Laboratory Duopoly Markets," *Economic Inquiry*, April 1999, pp. 258-281.

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Mason, Charles, F. and Owen R. Phillips, "Mitigating the Tragedy of the Commons Through Cooperation: An Experimental Evaluation," *Journal of Environmental Economics and Management*, October 1997, pp. 148-172.

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Phillips, Owen R. and Charles F. Mason, "Fixed Costs, Bankruptcy, and Price Wars in a Duopoly Game," *Southern Journal of Economics*, January 1997, pp. 726–742.

Mason, Charles F. and Arik Ragowsky, "On the Value of Information in Information Systems," Papers and Proceedings of the 30<sup>th</sup> annual Hawaiian International Conference on System Sciences.

Phillips, Owen R. and Charles F. Mason, "Market Regulation and Multi-Market Rivalry," *RAND Journal of Economics*, Autumn 1996, pp. 596–617.

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Mason, Charles F. and Frederic P. Sterbenz, 1994, "Imperfect Product Testing and Market Size," *International Economic Review*, pp. 61 - 86.

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Mason, Charles F., Owen R. Phillips, and Clifford Nowell, 1992, "Duopoly Behavior in Asymmetric Markets: An Experimental Evaluation," *Review of Economics and Statistics*, pp. 662 - 70.

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Mason, Charles F., Owen R. Phillips, and Douglas B. Redington, 1991, "The Role of Gender in a Non-Cooperative Game," *Journal of Economic Behavior and Organization*, pp. 215-235.

Mason, Charles F., 1989, "Exploration Information and A.E.C. Regulation of the U.S. Uranium Industry," *Journal of Economic Dynamics and Control*, pp. 421-448.

Mason, Charles F., Todd Sandler, and Richard Cornes, 1988, "Expectations, the Commons, and Optimal Group Size," *Journal of Environmental Economics and Management*, pp. 99 - 110.

Coursey, Don L. and Charles F. Mason, 1987, "Investigations Concerning the Dynamics of Consumer Behavior," *Economic Inquiry*, pp. 549 - 564.

Mason, Charles F., 1987, "Predation by Noisy Advertising," *Review of Industrial Organization*, pp. 78 - 93.

Cornes, Richard, Charles F. Mason, and Todd Sandler, 1986, "The Commons and the Optimal Number of Firms," *Quarterly Journal of Economics*, pp. 641 - 646.

Mason, Charles F., 1985, "Exploration, Information, and Regulation in an Exhaustible Mineral Industry," *Journal of Environmental Economics and Management*, pp. 153 -166.

Mason, Charles F., 1986, "Cherries, Lemons, and the FTC, Revisited," *Economic Inquiry*, pp. 363 - 365.

Mason, Charles F., 1985, "On Scale Economies and Exhaustible Resource Markets," *Review of Industrial Organization*, pp. 144 - 159.

Mason, Charles F., 1985, "Learning from Exploration Information," *Resources and Energy*, pp. 243 - 257.

## Work in Progress

Fitzgerald, Timothy and Charles F. Mason, "The Importance of Productivity Effects of Hydraulic Fracturing to Broader Exploitation of Unconventional Natural Gas Deposit," submitted to *Environment and Development Economics*; resubmitted 4/20.

Mason, Charles F., "Analyzing the Risk of Transporting Crude Oil by Rail," submitted to *Economic Inquiry*; revisions requested and pending.

Mason, Charles F. and Neil Wilmot, "Energy Price Jumps, Fat Tails and Climate Policy," 9/20.

Mason, Charles F. and Neil Wilmot, "On Climate Jumps and Fat Tails," 9/20.

Mason, Charles F. and Remi, Morin-Chasse, "The Transition to Renewable Energy," 5/20.

Fitzgerald, Timothy and Charles F. Mason, "Whose Frac is It, Anyway? Using Sources of Productivity Gains to Explain Industrial Organization in Oilfield Services," 4/20.

Mason, Charles F., "Public Policy Towards Offshore Oil Spills," 2/20.

Mason, Charles F., "Climate Agreements with Asymmetric Countries: Theory and Experimental Results," 12/19.

Boskovic, Branco, Andrew Leach and Charles F. Mason, "Nonrenewable Resources, Reserves and Carbon Pricing," 8/19.

Mason, Charles F., "On the Interaction of Eco-Labeling and Trade," 3/19.

Mason, Charles F., "An Experimental Analysis of the Complications in Colluding when Firms are Asymmetric," 12/18.

Mason, Charles F., "Why do Firms Hold Oil Stockpiles?" 10/18.

Marks, Levi, Charles F. Mason and Matthew Zaragoza-Watkins, "Raising Rivals' Costs: Vertical Market Power in Natural Gas Pipelines and Wholesale Electricity Markets," 6/18.

Morin-Chasse, Remi and Charles F. Mason, "On Environmental Accidents with a Judgment-Proof Firm," 5/18.

Mason, Charles F., "Optimal Contracts for Sequestration with Heterogeneous Risk Averse Agents," 3/18.

Mason, Charles F., "Collusion or Oil-lusion? East Texas in the Age of Giant Oil Fields," 12/16.

Mason, Charles F. and Klaas van 't Veld, "Hotelling Meets d'Arcy: A New Model of Oil Extraction," 3/13.

#### Refereed Chapters in Books and Monographs

Wilmot, Neil and Charles F. Mason, "Jumps in Energy Commodity Markets," <u>Handbook of Energy Finance</u>: Theories, Practices and Simulations, 2019.

Oliver, Matt and Charles F. Mason, "An overview of interstate gas pipeline regulation in the United States," in: <u>Progress in Economics Research</u>, Vol. 39, NOVA Publishers, 2017, p. 91-118.

Mason, Charles F., "Some Economic Issues in the Exploration for Oil and Gas," in: <u>New Frontiers in Oil and Gas Exploration</u>, Springer International Publishing, Congrui Jin and Gianluca Cusatis, eds., 2016 pp. 507-518.

Mason, Charles F., Victoria Umanskaya and Edward Barbier, "On the Strategic Use of Import Tariffs to Control Trans-boundary Externalities," <u>Game Theory Applications to Environmental Economics</u>, World Science Press, 2016 pp. 93-114.

Mason, Charles F., <u>Topics in the Organization of the Oil Industry</u>, <u>Past and Present</u>, NOW Publishers, Hanover MA, 2014.

Burgess, Jo, Chis J. Kennedy and Charles F. Mason, "On the Potential for Speculation to Threaten Biodiversity Loss," in: <u>Nature in the Balance: The Economics of Biodiversity</u>, Oxford University Press, 2013.

Kroll, Stephan, John List and Charles F. Mason, "International Environmental Problems as Two-Level Games: An Experimental Investigation," <u>Handbook on Experimental Economics and the Environment</u>, 2013.

Mason, Charles F., "Global Petroleum Markets: Pat, Present and Future," <u>Encyclopedia of Globalization</u>, Basil Blackwell publishers, 2012.

Mason, Charles F., "What Motivates Membership in OPEC?," <u>OPEC, Oil Prices and LNG</u>, NOVA Science publications, E. R. Pitt and C. N. Leung, eds., 2009, 281-294.

Kroll, Stephan, Charles F. Mason, and Jason Shogren "Environmental Conflicts and Interconnected Games: An Experimental Note on Institutional Design," *Game Theory and the Global Environment*, H. Folmer and N. Hanley, eds., 1998.

Charles F. Mason and Kenneth Train, 1985, "A Route Forecasting Method for the Portland Area" In: <u>Research in Transportation Economics</u> (Theodore Keeler ed.), JAI Press, pp. 239 - 259.

### <u>Other</u>

John W. Collins and Charles F. Mason, <u>Summit on Improving the Economics of America's Nuclear Power Plants</u>, Center for Advanced Energy Studies, INL/EXT-16-39257, prepared at the request of the U.S. Department of Energy, September 2016.

Stephen P. A. Brown, Charles F. Mason, Alan Krupnick and Jan Mares, 2014, "Crude Behavior: How Lifting the Oil Export Ban Reduces Gasoline Prices in the US," Resource for the Future Issue Brief 14-03-REV.

Charles F. Mason, 1991, "Games and Information," review for <u>Review of Industrial Organization</u>.

Charles F. Mason, 1990, "The Value of a Trout Stream," Rocky Mountain Streamside

Charles F. Mason and Robert Whaples, 2006, "Study Guide to Accompany Microeconomics," (4<sup>th</sup> edition) Addison-Wesley Longman: Reading, MA.

Charles F. Mason, 1999, "Classroom Experiments for Intermediate Microeconomics," Addison-Wesley Longman: Reading, MA.

Dag Nummedal, Brian Towler, Charles Mason and Myron Allen, 2003, "Enhanced Oil Recovery in Wyoming: Prospects and Challenges," University of Wyoming White Paper (prepared for Governor Dave Freudenthal).

## **GRANTS**

## Funded Projects as PI

"Co-Optimization of Enhanced Oil Recovery and Carbon Sequestration," UW School of Energy Resources; 9/07-5/08. Funding for a graduate student.

"On the Economics of Eco-Labeling," NSF grant # SES-0214160, \$54,334; 8/02 – 7/03.

"A Competitive Assessment of the Market for Alaskan Forest Products," USDA, \$25,907; 10/00 - 6/01.

"Incorporating Uncertainty into an Assessment of Global Climate Change," COB 1995 Summer grant, \$5,000.

"An Experimental Analysis of Entry Deterrence," COB 1994 Summer grant, \$4,000.

"Observing Trigger Strategies in Two-Person Experimental Games," COB 1993 Summer grant, \$4,000.

"Mitigating the Tragedy of the Commons Through Cooperation: An Experimental Evaluation," COB 1992 Summer grant, \$4,000.

"Raising Rivals' Costs: An Experimental Evaluation," COB 1991 Summer grant, \$4,200.

## Funded Projects as CoPI

2006 – 2009 "Big Sky Regional Carbon Sequestration Partnership, Phase 2," Department of Energy, Fossil Energy Research and Development Program, with S. M. Capalbo, J. M. Antle, Andrew Plantinga and Klaas van 't Veld, \$14,292,087.

2004 – 2006 "State Appropriation to the Enhanced Oil Recovery Institute for EOR in Wyoming," with O. R. Phillips and Klaas van 't Veld, State of Wyoming, \$263,000.

1990 - 1991 "Collusion in Multi-Market Rivalry," with O. R. Phillips, NSF/EPSCoR, \$51,500.

#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Co-Editor *Economic Inquiry* (2015-)

Associate Editor European Economic Review (2012-)

Joint Editor-in-Chief Strategic Behavior and the Environment (2012-)

Editor, special issue Journal of Economic Behavior and Organization (2015-2016)

Co-Editor Journal of the Association of Environmental and Resource Economists

(2014-2016)

Joint Interim Journal of the Association of Environmental and Resource Economists

Managing Editor: (2013)

Editor, special issue Resource and Energy Economics (2013; issue appeared Jan. 2014)

Managing Editor: Journal of Environmental Economics and Management (2006-2011)

Associate Editor: Journal of Environmental Economics and Management (2001-2006)

Journal of Environmental Economics and Management (1999-2000)

Associate Editor: Social Science Journal (1988-1992)
Editorial Board: Challenges in Sustainability (2012-)

Journal of Environmental Economics and Management (1992-1993; 2011-)

Referee: American Economic Review, American Economic Journal: Economic Policy, American Journal of Agricultural Economics, Journal of Agricultural & Food Industrial Organization, B.E. Journals in Economic Analysis & Policy, Contemporary Economic Policy, Defence Economics, Ecological Economics, Economica, Economica, Economica Analysis and Policy, Economic Inquiry, Energy Journal, Environmental and Resource Economics, Experimental Economics, Forest Science, Growth and Change, International Economic Review, International Journal of Agricultural Resources Governance and Ecology, International Journal of Game Theory, Journal of Business Economics, Journal of Economic Behavior and Organization, Journal of Economic Dynamics and Control, Journal of Environmental Economics and Management, Journal of Economics & Management Strategy, Journal of Environmental Management, Journal of Law, Economics and Organization, Journal of Optimization Theory and Applications, Journal of

Political Economy, Journal of Public Economics, Journal of Regulatory Economics, Land Use Policy, Marine Resource Economics, Oxford Economic Papers, RAND Journal of Economics, Resources and Energy, Resource and Energy Economics, Review of Economics and Statistics, Review of Industrial Organization, Scandinavian Journal of Economics, Science, The Social Science Journal, Southern Economic Journal, Water Resources Research, Zeitschrift für Nationalökonomie, National Science Foundation, Social Sciences and Humanities Research Council of Canada.

Mortar Board "Top Prof", 1994.

References available on request