

David A. Fleming-Muñoz

David.Fleming@CSIRO.au
D.Flemingmunoz@UQ.edu.au
(+61) 436 635 046

EDUCATION

PhD, Applied Economics
The Pennsylvania State University (USA), 2012

MS, Applied Economics (Agricultural, Environmental and Regional Economics Program)
The Pennsylvania State University (USA), 2008

BA, Agricultural Engineering (major in Agricultural Economics)
Pontificia Universidad Católica (Chile), 2002

PROFESSIONAL APPOINTMENTS

Current appointments

Senior research economist
CSIRO (Brisbane, Australia)

Honorary Senior Fellow
Department of Economics
The University of Queensland (Brisbane, Australia)

Editor-in-chief
Resources Policy

Past appointments

Research fellow
Motu Economic and Public Policy Research (Wellington, New Zealand), 2016–2018

Research analyst
The Northeast Regional Center for Rural Development (NERCRD)
The Pennsylvania State University (University Park, PA), 2007–2012

Summer intern
Economic Research Service (ERS)
United States Department of Agriculture (USDA) (Washington, DC), 2007

PUBLICATIONS

Articles in peer-reviewed journals (29):

1. Owen, S., Noy, I., Pástor-Paz, J., and Fleming, D. (2021). Measuring the Impact of Insurance on Recovery after Extreme Weather Events Using Nightlights. *Asia-Pacific Journal of Risk and Insurance*.
2. Atienza, M., Fleming-Muñoz, D., & Aroca, P. (2021). Territorial development and mining. Insights and challenges from the Chilean case. *Resources Policy*, 70, 101812.
3. **Fleming-Muñoz, D.**, Poruschi, L., Measham, T., Meyers, J. and M. Moglia (2020). Economic Vulnerability and Regional Implications of a Low Carbon-emissions Future. *Australian Journal of Agricultural and Resource Economics* 64 (3), 575–604
4. **Fleming-Muñoz, D.**, Preston, K. and A. Arratia-Solar (2020). Value and Impact of Publicly Funded Climate Change Agricultural Mitigation Research: Insights from New Zealand. *Journal of Cleaner Production* 248, 119249
5. Measham, T., Marcos-Martinez, R., Poruschi, L., and **D. Fleming-Muñoz** (2020). Lessons from 5 Years of GISERA Economic Research. *The APPEA Journal* 60 (1), 34-40
6. Pastor-Paz, J., Noy, I., Sin, I., Sood, A., **Fleming-Muñoz, D.** and S. Owen. (2020). Projecting the Effect of Climate Change on Residential Property Damages Caused by Extreme Weather Events. *Journal of Environmental Management* 276, 111012
7. Atienza, M., **Fleming-Muñoz, D.**, and P. Aroca (2020). Territorial Development and Mining. Insights and Challenges from the Chilean Case. *Resources Policy* 101812.
8. Jara-Rojas, R., Russy, S., Roco, L., **Fleming-Muñoz, D.**, & Engler, A. (2020). Factors Affecting the Adoption of Agroforestry Practices: Insights from Silvopastoral Systems of Colombia. *Forests* 11(6), 648
9. Measham, T., Walton, A., Graham, P., and **D. Fleming-Muñoz** (2019). Living with Resource Booms and Busts: Employment Scenarios and Resilience to Unconventional Gas Cyclical Effects in Australia. *Energy Research & Social Science* 56, 101221
10. Marcos-Martinez, R., Measham, T. and **D. Fleming-Muñoz** (2019). Economic Impacts of Early Unconventional Gas Mining: Lessons from the Coal Seam Gas Industry in New South Wales. *Energy Policy* 125, 338–346
11. Goetz, S. J., Davlasheridze, M., Han, Y., and **D. Fleming-Muñoz** (2019). Explaining the 2016 Vote for President Trump across US Counties. *Applied Economic Perspectives and Policy* 41 (4), 703-722
12. **Fleming, D.**, Grimes, A., Lebreton, L., Maré, D. and P. Nunns (2018). Valuing Sunshine. *Regional Science and Urban Economics* 68, 268–276
13. Paredes, D., Soto, J. and **D. Fleming** (2017). Wage Compensation for fly-in/fly-out and drive-in/drive-out Commuters. *Papers in Regional Science* 97 (4), 1337–1354
14. Measham, T., **Fleming, D.** and H. Schandl (2016). A Conceptual Model of the Socioeconomic Impacts of Unconventional Fossil Fuel Extraction. *Global Environmental Change* 36, 101–110

15. Foran, T., **Fleming, D.**, Spandonide, B., Williams, R. and D. Race (2016). Understanding Energy-related Regimes: A Participatory Approach from Central Australia. *Energy Policy* 91, 315–324
16. Li, M., Goetz, S., Partridge, M. and **D. Fleming** (2016). Location Determinants of High-growth Firms. *Entrepreneurship & Regional Development* 28 (1-2), 97–125
17. **Fleming, D.**, Measham, T. and D. Paredes (2015). Understanding the Resource Curse (or Blessing) across National and Regional Scales: Theory, Empirical Challenges and an Application. *Australian Journal of Agricultural and Resource Economics*, 59 (4), 624–639
18. **Fleming, D.** and T. Measham (2015). Local Economic Impacts of an Unconventional Energy Boom: The Coal Seam Gas Industry in Australia. *Australian Journal of Agricultural and Resource Economics* 59 (1), 78–94
19. **Fleming, D.** and T. Measham (2015). Income Inequality across Australian Regions during the Mining Boom: 2001-2011. *Australian Geographer* 46 (2), 201–214
20. Measham, T. and **D. Fleming** (2014). Socio-economics: Assess Benefits and Costs of Shale Energy. *Nature* 510 (7506), 473
21. **Fleming, D.**, Chong, A. and D. Bejarano (2014). Trust and Reciprocity in the Aftermath of Natural Disasters. *Journal of Development Studies* 20 (11), 1482–1493
22. **Fleming, D.** and T. Measham (2014). Local Job Multipliers of Mining. *Resources Policy* 41, 9–15
23. **Fleming, D.** (2014). Slippage Effects of Land-Based Policies: Evaluating the Conservation Reserve Program Using Satellite Imagery. *Papers in Regional Science* 93 (S1), 167–178
24. Measham, T. and **D. Fleming** (2014). Impacts of Unconventional Gas Development on Rural Community Decline. *Journal of Rural Studies* 36, 376–385
25. **Fleming, D.** and D. Abler (2013). Does Agricultural Trade affect Productivity? Evidence from Chilean Farms. *Food Policy* 41, 11–17
26. Goetz, S., **Fleming, D.** and A. Rupasingha (2012). The Economic Impacts of Self-employment. *Journal of Agricultural and Applied Economics* 44 (3), 315–321
27. **Fleming, D.** and S. Goetz (2011). Does Local Firm Ownership Matter? *Economic Development Quarterly* 25 (3), 277–281
28. **Fleming, D.**, Abler, D. and S. Goetz (2010). Agricultural Trade and Poverty in Chile: A Spatial Analysis of Product Tradability. *Agricultural Economics* 41 (6), 545–553
29. Kinsella, J., Goetz, S., Partridge, M., Deller, S. and **D. Fleming** (2010). Evaluating RD Policies for Social and Human Capital Development. *EuroChoices* 9 (1), 42–47
30. Goetz, S., Partridge, M., Deller, S. and **D. Fleming** (2010). Evaluating U.S. Rural Entrepreneurship Policy. *Journal of Regional Analysis and Policy* 40 (1), 20–33

Working papers and refereed reports, select:

1. **Fleming-Muñoz, D.**, Poruschi, L., Walton, A., McCrea, R. and P. Grubnic (2021). H2 Progress Indicators and Measures of Success: Data Collection and Analysis. CSIRO. Brisbane, Australia.
2. Williams, L., Capon, T., **Fleming-Muñoz, D.**, van Wensveen, M. and R. Williams (2021). Impact assessment approach: ACIAR-funded soil restoration projects in post-tsunami Aceh. CSIRO. Brisbane, Australia
3. **Fleming-Muñoz, D.**, Poruschi, L., Marcos Martinez R, Measham T, Wu W (2020). Exports 2030: Victorian Food and Fibre Exports Trends and Projections. Report prepared for the Victoria Government. CSIRO. Brisbane, Australia
4. Wen, W., McCallister, R., **Fleming-Muñoz, D.**, Poruschi, L., et al. (2020). Delivering Trusted Australian Agrifood Exports and Boosting Value: The Role of Research and Development. CSIRO. Canberra, Australia
5. Wu, W., Dawson, D., **Fleming-Muñoz, D.**, Schleiger, E. and J. Horton (2019). The Future of Australia's Agricultural Workforce. CSIRO Data61. Brisbane, Australia
6. Almeida, A., Penton, D., Rocha, A., **Fleming, D.**, et al. (2019). State of the Water Resources in the Kamala Basin. CSIRO and WECS, Nepal
7. Capon, T., **Fleming-Muñoz, D.**, Gorddard, R., Langrené, N., O'Connell, D., Wynn, K., Reeson, A. and P. Toscar (2019). Risk Analysis in Complex Systems for Energy Security. Prepared for the Department of Environment and Energy. CSIRO. ACT, Australia
8. **Fleming, D.**, Cook, S., Pert, P. and N. Lazarow (2019). Leading Practice Approaches to Triple Bottom Line Outcomes and Market Potential of the CLARA Strategic Business Case. CSIRO. Brisbane, Australia
9. **Fleming, D.**, Kerr, S. and E. Lou (2019). Cows, Cash and Climate: Low Stocking Rates, High-performing Cows, Emissions and Profitability across New Zealand Farms. Motu Working Paper 19-11. Motu Economic and Public Policy Research Trust. Wellington, New Zealand
10. Cortés-Acosta, S., **Fleming, D.**, Henry, L., Lou, E., Owen, S. and B. Small (2019). Identifying Barriers to Adoption of "No-cost" Greenhouse Gas Mitigation Practices in Pastoral Systems. Motu Working Paper 19-10. Motu Economic and Public Policy Research Trust. Wellington, New Zealand
11. **Fleming, D.**, Brown, P., Cortés-Acosta, S., de Klein, C., Dynes, R., Kerr, S., Knook, J. and B. Small (2019). No-cost Agricultural Mitigation Practices. Motu Note #36. Motu Economic and Public Policy Research Trust. Wellington, New Zealand
12. **Fleming, D.**, Noy, I., Pastor-Paz, J. and S. Owen (2018). Public Insurance and Climate Change (part one): Past Trends in Weather-Related Insurance in New Zealand. Motu Working Paper 18-09. Motu Economic and Public Policy Research Trust. Wellington, New Zealand
13. Dorner, Z., Djanibekov, U., Soliman, T., Stroombergen, A., Kerr, S., **Fleming, D.**, Cortes-Acosta, S. and S. Greenhalgh (2018). Land-use Change as a Mitigation Option for Climate Change. Report to the Biological Emissions Reference Group of the Ministry for Primary Industries. Motu Economic and Public Policy Research Trust. Wellington, New Zealand

14. Hendy, J., Ausseil, A-G., Bain, I., Blanc, E., **Fleming, D.**, et al. (2018). Land-use modelling in New Zealand: Current practice and future needs. Motu Working Paper 18-16. Motu Economic and Public Policy Research Trust. Wellington, New Zealand
15. Taylor, B., Walton, A., Loechel, B., Measham, T. and **D. Fleming** (2017). Strategic Foresight for Regional Australia. Report prepared for the Australian Government Department of Infrastructure, Regional Development and Cities. CSIRO. Brisbane, Australia
16. **Fleming, D.**, Cai, Y., Graham, P. and T. Measham (2016). Evaluating Economic Models to Forecast Regional Socioeconomic Impacts Generated by Unconventional Fossil Fuel Extraction. Project report for the Gas Industry Social and Environmental Research Alliance (GISERA), CSIRO. Brisbane, Australia
17. Moffat, K., Boughen, N., Zhang, A., Lacey, N., **Fleming, D.** and K. Uribe (2014). Chilean Attitudes toward Mining, Citizen Survey – 2014 Results. Mineral Resources Flagship report, CSIRO. Brisbane, Australia
18. **Fleming, D.** (2013). Assessing Regional Economic Impacts across a Mining Boom Country: Australia, 2001–2011. Refereed proceedings of the 2nd Social Responsibility in Mining conference. Santiago, Chile
19. **Fleming, D.** and T. Measham (2013). Disentangling the Natural Resources Curse: National and Regional Socioeconomic Impacts of Resource Windfalls. Selected paper prepared for presentation at the Agricultural & Applied Economics Association’s 2013 AAEA & CAES joint annual meeting. Washington, USA
20. Brown, J., Goetz, S. and **D. Fleming** (2012). Multifunctional Agriculture and Farm Viability in the United States. Selected paper prepared for presentation at the Agricultural & Applied Economics Association’s 2012 annual meeting. Seattle, USA
21. **Fleming, D.** (2012). On the Importance of Social Capital in the Aftermath of Natural Disasters: An Empirical Investigation of the 2010 Chilean Earthquake. LACEEP Working Paper Series WP41. Turrialba, Costa Rica
22. **Fleming, D.**, McGranahan, D. and S. Goetz (2009). Natural Amenities and Rural Development: The Role of Land-Based Policies in the U.S. Rural Development Paper No. 45, The Northeast Regional Center for Rural Development. University Park, USA

CONFERENCE, SEMINAR & WORKSHOP PRESENTATIONS

Keynote Speaker

International Conference on Economics, Energy and Environment (Turkey – given via Zoom), July 2021
 Chilean Regional Studies Society (SOCHER) Annual Conference (Chile), September 2017
 Australian Regional Development Conference (Australia), September 2016

Invited seminars (chronological order):

Centro de Investigación y Docencia Económicas CIDE (Mexico DF, 2011); University of Sydney – Department of Agricultural Economics (Web conference, 2011); Universidad de Talca – Department of Agricultural Economics (Chile, 2012); Universidad Católica del Norte – Department of Economics (Chile,

2012); University of Ottawa – Department of Economics (Ottawa, 2012); Penn State University – The Marcellus Shale Centre (USA, 2013); AARES ACT Branch Seminar (Canberra, 2014); University of Queensland – Sustainable Minerals Institute (Brisbane, 2015); University of Canberra – Institute for Governance and Policy Analysis (Canberra, 2015); Kasetsart University – Department of Economics (Bangkok, 2016); McGill University – Department of Natural Resources (Montreal, 2016); Macquarie University – Department of Economics (Sydney, 2016); Universidad de Santiago de Chile – Department of Economics (Santiago, 2016); Landcare Research (Auckland, 2017); Universidad Adolfo Ibañez – Department of Economics (Viña del Mar, 2017); New Zealand Treasury (Wellington, 2018); University of Queensland – Department of Geography (Brisbane, 2019)

International workshops and conference presentations by invitation (chronological order):

OECD – Expert consultation workshop (Paris, 2009); Latin American and Caribbean Environmental Economics Program – Research workshops (Ecuador, 2010 – Panama, 2010 – Costa Rica, 2011); North American Regional Science Council annual meeting – Regional development special session (Washington DC, 2014); ANU Crawford School – Public symposium (Canberra, 2015); International Centre for Integrated Mountain Development – Water-livelihood-gender nexus workshop (Nepal, 2016); Regional, Urban and Spatial Economics workshop (China, 2016); CESIEP Desarrollo de Políticas Publicas: Desafíos y Oportunidades (Chile, 2016); Deep South National Science Challenge Symposium (Wellington, 2017)

Conference presentations by submitted paper/abstract (alphabetical order):

Agricultural & Applied Economics Association (AAEA) annual meetings (2010, 2011, 2013); Australian Agricultural & Resource Economics Society (AARES) annual conferences (2013, 2014, 2016, 2020); Australia & New Zealand Regional Science Association International (ANZRSIAI) annual conference (2012); Canadian Agricultural Economics Society/NAREA joint conference (2008); Emerging Issues along Urban/Rural Interfaces III conference (2010); International Association of Agricultural Economists (IAAE) Inter-Conference Symposium (2017); International Association for Impact Assessment (IAIA) annual conference (2019); Institute of Australian Geographers (IAG) conference (2015); International Society for Ecological Economics (ISEE) annual conference (2016); International Symposium for Society and Resource Management (ISSRM) conference (2016); New Zealand Association of Economists (NZAE) Annual Conference (2017); North American Regional Science Council (NARSC) annual meetings (2011, 2012); Regional Studies Association (RSA) Australasian conference (2015); Southern Regional Science Association (SRSA) annual meeting (2010); World Congress of Environmental and Resource Economists (2010)

OUTREACH & PROFESSIONAL INVOLVEMENT

Editorial services:

Editor-in-chief, *Resources Policy* (2017–present)
Editorial board member, *Energy Research & Social Science* (2020–present)
Editorial board member, *Land Use Policy* (2016–present)
Associate editor, *Resources Policy* (2015-16)

Referee services for journals – 28 different journals / 100+ reviews (alphabetical order):

Australian Economic Papers; Australian Journal of Agricultural and Resource Economics; Ecological Economics; Economic Development Quarterly; Economic Papers; Energy Economics; Energy Research & Social Science; Environment and Development Economics; Environmental Science and Policy; European Review of Agricultural Economics; Food Policy; Journal of Agricultural Economics; Journal of Economic Surveys; Journal of Development Studies; Journal of Industrial Ecology; Journal of Regional Science; Journal of Rural Studies; Land Use Policy; Mineral Economics; Natural Hazards; Natural

Resources Forum; New Zealand Economic Papers; New Zealand Journal of Agricultural Research; Papers in Regional Science; PLOS One; Resources Policy; Rural Society; Science of the Total Environment; Society and Natural Resources; Sustainability

Referee services for research grant foundations (alphabetical order):

Comisión Nacional de Investigación Científica y Tecnológica de Chile; CSIRO Early Research Career Postdoctoral Fellowship Program; Estonian Research Council; Latin American and Caribbean Environmental Economics Program; Northeast Regional Center for Rural Development; Partnership for Economic Policy (African office); Teagasc Agriculture and Food Development Authority

Membership in professional associations:

American Economic Association; Agricultural & Applied Economics Association; Australian Agricultural & Resource Economics Society; North American Regional Science Council; European Association of Environmental & Resource Economists

Leadership in professional associations:

President, Australian Agricultural & Resource Economics Society (AARES) ACT Branch (2016)

Publications in media or Government consultations

Lead author, CSIRO Submission 18/633. *Parliamentary Inquiry* into how the mining sector can support businesses in regional economies

Four articles published in *The Conversation* with more than 48,000 reads

AWARDS & SCHOLARSHIPS

2021 'Best 2020 Paper Prize', the *Australian Journal of Agricultural and Resource Economics* – AARES & Wiley

2021 'Research Impact Award: Most outstanding article published in the *Journal of Regional Analysis & Policy*' – Mid-Continent Regional Science Association

2020 'Customer Engagement and Delivery Culture Award', project leader – CSIRO Land & Water

2015-2020, Awards (5) for outstanding achievements, including participation in projects awarded the 'Inclusion and Diversity 2020' and the 'CSIRO Collaboration 2020' awards – CSIRO

2014, Award of excellence in research – CSIRO Socio-Economics Sciences Research Program

2012, Award for best conference paper – NZRSAI 2012 Annual Conference

2011, Scholarship, Belpasso International Economics Summer School – EAERE

2010, Travel award for dissertation research – Penn State University

2006-2008, Fulbright scholar

2000, 'Matricula de Honor' award for class best academic performance – Universidad Católica de Chile

GRANTS & PROJECT LEADS (\$ in local currency)

2020, Project leadership (\$164,000). Client: Department of Industry, Science, Energy and Resources, Australian Federal Government (Australia)

2019, Project leadership (\$235,000). Client: Department of Jobs, Precincts and Regions, Victoria State Government (Australia)

2019, Project co-leadership (\$250,000). GISERA Research Alliance (Australia)

2017, Competitive research grant (PI, \$150,000). Deep South National Science Challenge (New Zealand)

2017, Competitive research grant (PI, \$177,000). SLMACC Programme, Ministry for Primary Industries (New Zealand)
2016, Project co-leadership (PI, \$113,000). GISERA Research Alliance (Australia)
2010, Research grant (PI, \$15,000). Latin American and Caribbean Environmental Economics Program
2010, Research grant (PI, \$2,000). College of Agricultural Sciences at Penn State University (USA)

TEACHING

Undergraduate courses:

Teaching assistant: (1) Applied economics; (2) Business management (PUC Chile, 2000 and 2001)
Associate Lecturer: (1) International development; (2) Regional development (Penn State University, 2011 and 2012)

Postgraduate courses:

Guest Lectures: (1) Assessment of international development projects (University of Queensland, 2018); (2) Regional economics and development (Penn State University 2010, 2011)
Teaching assistant: (1) Agricultural commodity markets (Penn State University 2011)

OTHER LEADERSHIP ROLES & AWARDS (select)

2015–2016, President, Spanish Speakers Association Inc. (Australia), not-for-profit organization
2010, The Ardeth and Norman Frisbey International Student Award, Penn State University
2010, Scholarship, Future Leaders Forum – Association for International Agriculture and Rural Development, Washington DC
2009–2010, Founder and president, Latin American Graduate Student Association, Penn State University

ADDITIONAL INFORMATION

Languages: English; Spanish (native)

Citizenships: Australia, Chile, Ireland

Twitter: @dflemingm | **Researcher ID:** H-2442-2012

Google Scholar Profile: [OWQUBIAAAAJ](#)