

Peter Newton

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Sustainability, Energy, and Environment Complex
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EDUCATION

- 2007 – 2011 **Ph.D.**, School of Environmental Sciences, University of East Anglia, UK
2006 – 2007 **M.Sc.**, *Applied Ecology and Conservation*, University of East Anglia, UK
2000 – 2003 **B.A. Hons. (2.1)**, *Zoology*, University of Cambridge, UK

APPOINTMENTS

- 2016 – **Associate**, Governors' Climate and Forests Task Force
2015 – **Assistant Professor**, Environmental Studies Program, University of Colorado, Boulder, USA
2012 – 2014 **Postdoctoral Research Fellow**, University of Michigan, USA
International Forestry Resources and Institutions (IFRI) research network
CGIAR research program on Climate Change, Agriculture and Food Security
2011 **Environmental Educator**, UK
2007 – 2011 **Teaching Assistant**, University of East Anglia, UK
2005 – 2006 **Manager**, Wilderness Safaris, Botswana
2003 – 2005 **Head Guide & Acting Manager**, Uncharted Africa Safari Company, Botswana

RESEARCH

GRANTS

- 2016 – 2017 **University of Colorado Boulder Outreach and Community Engagement Interdisciplinary Group Award**, “Dig In! to local food” community literacy project’ (US \$24,000. Co-PI)

- 2015 – 2017 **CGIAR research program on Climate Change, Agriculture and Food Security (CAAFS) and International Fund for Agricultural Development (IFAD)**, ‘Shared knowledge and lessons for smallholder climate adaptation: learning from integrated agricultural systems in Brazil and Mozambique’ (US \$500,000. Co-PI)
- 2015 – 2016 **University of Colorado Boulder School of Environment and Sustainability** seed grant: ‘Insect protein as a sustainable alternative to soy and fish in animal feed’ (US \$20,000. PI)
- 2014 – 2018 **Department for International Development (DFID)**, ‘Estimating global dependence of livelihoods on forests and the impacts of forest investments’ (US \$3 million. Co-PI)
- 2014 – 2016 **Global Innovation Initiative – Institute of International Education (IIE)**, ‘Climate change mitigation, avoided deforestation and commodity agriculture: assessing private sector innovation for sustainable coffee and cattle in Brazil’ (US \$250,000. Co-PI)
- 2013 – 2014 **Food and Agriculture Organization of the United Nations (FAO)**, ‘Documenting lessons from IFRI research and data on developing forest policies and programs on community forestry’ (US \$25,000. Co-PI)
- 2013 – 2014 **São Paulo Research Foundation (FAPESP) & the University of Michigan**, ‘Governance of land-use change: a collaboration to understand the impacts of institutional arrangements on Amazonian forest resource use’ (US \$40,000. Co-PI)
- 2012 – 2014 **National Socio-Environmental Synthesis Center (SESYNC)**, ‘Forest social ecological systems for actionable science’ (~US \$95,000, in-kind support for three Venture meetings. Co-PI)
- 2012 – 2014 **CGIAR research program on Climate Change, Agriculture and Food Security (CAAFS)**, ‘Livelihoods, carbon, and the governance of the forest-agriculture frontier’ (US \$145,000. Co-PI)
- 2012 – 2013 **World Bank Social Development department**, ‘Community forest management and REDD+’ (US \$135,000. PI)

FELLOWSHIPS

- 2007 – 2011 **Natural Environment Research Council (NERC)** Ph.D. studentship (3.5 years)
- 2006 – 2007 **Natural Environment Research Council (NERC)** M.Sc. studentship (1 year)

PUBLICATIONS

*Student co-authors underlined; + denotes senior author for co-authored publications; * denotes corresponding author for co-authored publications*

Journal articles

- Gil, J., Cohn, A., Duncan, J., **Newton, P.**, Vermeulen, S. *In press*. The resilience of integrated agricultural systems to climate change. *WIREs Climate Change*
- Newton, P.**, Gomez, A.E.A., Jung, S., Kelly, T., Mendes, T.d.A., Rasmussen, L.V., dos Reis, J.C., Rodrigues, R.d.A.R., Tipper, R., van der Horst, D., Watkins, C. 2016. Overcoming barriers to low carbon agriculture and forest restoration in Brazil: the *Rural Sustentável* project. *World Development Perspectives* 4: 5-7
- Newton, P.**, Miller, D., Byenkya, M.A.A., Agrawal, A. 2016. Who are forest dependent people? A taxonomy to guide livelihood and land use decision-making in forested regions. *Land Use Policy* 57: 388-395
- Newton, P.**, Oldekop, J., Karna, B.K., Brodnig, G., Agrawal, A. 2016. Carbon, biodiversity, and livelihoods in forest commons: social capital, trade-offs, and lessons for REDD+. *Environmental Research Letters* 11: 044017
- Hajjar, R., Oldekop, J., Cronkleton, P., Etue, E., **Newton, P.**, Russel, A., Tjajadi, J., Zhou, W., Agrawal, A. 2016. The data not collected on community forestry. *Conservation Biology* 30: 1357–1362
- Newton, P.**, Alves-Pinto, H.N., Pinto, L.F.G. 2015. Certification, forest conservation, and cattle: theories and evidence of change in Brazil. *Conservation Letters* 8: 206-213
- Newton, P.**, Schaap, B., Fournier, M., Cornwall, M., Rosenbach, D.W., DeBoer, J., Whittemore, J., Stock, R., Yoders, M., Brodnig, G., Agrawal, A. 2015. Community forest management and REDD+. *Forest Policy and Economics* 56: 27-37
- Alves-Pinto H.N., **Newton P.***, Pinto L.F.G. 2015. Reducing deforestation and enhancing sustainability in commodity supply chains: interactions between governance interventions and cattle certification in Brazil. *Tropical Conservation Science* 8: 1053-1079
- Milder, J.C., Arbuthnot, M., Blackman, A., Brooks, S., Giovannucci, D., Gross, L.H., Kennedy, E.T., Komives, K., Lambin, E.F., Lee, A., Meyer, D., **Newton, P.**, Phalan, B., Schroth, G., Semroc, B., van Rokxoort, H., Zrust, M. 2015. An agenda for assessing and improving conservation impacts of sustainability standards in tropical agriculture. *Conservation Biology* 29: 309-320
- Winters, P., Kuo, H., Niljinda, C., Chen, B., Alves-Pinto, H.N., Ongun, M., Daryanto, S., **Newton, P.**⁺ 2015. Voluntary certification design choices influence producer participation,

stakeholder acceptance, and environmental sustainability in commodity agriculture sectors in tropical landscapes. *Journal of Sustainable Forestry* 34: 581–604

Vargas, F.S., Almeida, P.D.O., Aranha, E.S.P., Boleti, A.P.A., **Newton, P.**, Vasconcellos, M.C., Veiga-Junior, V.F., Lima, E.S. 2015. Biological activities and cytotoxicity of diterpenes from *Copaifera* spp. oleoresins. *Molecules* 20: 6194-6210

Newton, P., Agrawal, A., Wollenberg, E. 2013. Enhancing the sustainability of commodity supply chains in tropical forest and agricultural landscapes. *Global Environmental Change* 23: 1761-1772

Newton, P., Endo, W., Peres, C.A. 2012. Determinants of livelihood strategy variation in two extractive reserves in Amazonian flooded and unflooded forest. *Environmental Conservation* 39: 97-110

Newton, P., Nichols, E.S., Endo, W., Peres, C.A. 2012. Consequences of actor level livelihood heterogeneity for additionality in a tropical forest payment for environmental services programme with an undifferentiated reward structure. *Global Environmental Change* 22: 127-136

Newton, P., Peres, C.A., Desmoulière, S.J.M., Watkinson, A.R. 2012. Cross-scale variation in the density and spatial distribution of an Amazonian non-timber forest resource. *Forest Ecology and Management* 276: 41-51

Newton, P., Watkinson, A.R., Peres, C.A. 2012. Spatial, temporal and economic constraints to the commercial extraction of a non-timber forest product: copaíba (*Copaifera* spp.) oleoresin in Amazonian extractive reserves. *Economic Botany* 66: 165-177

Newton, P., Watkinson, A.R., Peres, C.A. 2011. Determinants of yield in a non-timber forest product: *Copaifera* oleoresin in Amazonian extractive reserves. *Forest Ecology and Management* 261: 255-264

Newton, P., Nguyen V.T., Robertson, S., Bell, D. 2008. Pangolins in peril: using hunters' knowledge to conserve elusive species in Vietnam. *Endangered Species Research* 6: 41-53

Working papers

Bogaerts, M., Cirhigiri, L., Robinson, I., Rodkin, M., Hajjar, R., Costa Junior, C., **Newton, P.**⁺ 2016. Climate change mitigation through intensified pasture management: Estimating greenhouse gas emissions on cattle farms in the Brazilian Amazon. CCAFS Working Paper no. 188. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

Pinto, L.F.G., Hajjar, R., **Newton, P.**, Agrawal, A., Adshead, D., Bini, D., Bogaerts, M., Cirhigiri, L., Maguire-Rajpaul, V.A., González-Chaves, A., McDermott, C., Milder, J., Pinho, P., Robinson, I., Rodkin, M., Wollenberg, E. 2016. Transitioning to more sustainable, low-

emissions agriculture in Brazil. CCAFS Info Note. Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS).

Newton, P., Oldekop, J., Agrawal, A., Cronkleton, P., Etue, E., Russell, A., Tjajadi, J.S., Zhou, W. 2015. What are the biophysical, institutional, and socio-economic contextual factors associated with improved livelihood and environmental outcomes in forests managed by communities? A systematic review protocol. Center for International Forestry Research (CIFOR) Working Paper No. 172.

Newton, P., Oldekop, J., Agrawal, A., Cronkleton, P., Etue, E., Russell, A., Tjajadi, J.S., Zhou, W. 2015. What are the biophysical, institutional, and socio-economic contextual factors associated with improved livelihood and environmental outcomes in forests managed by communities? A systematic review protocol. Center for International Forestry Research (CIFOR) Working Paper No. 172.

Winters, P., Kuo, H., Niljinda, C., Chen, B., Ongun, M., Alves-Pinto, H.N., Daryanto, S., **Newton, P.**⁺, 2015. Designing for value: Structuring voluntary certification programs to increase stakeholder acceptance. CCAFS Working Paper no. 141. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

Simonet, G. Karsenty, A., de Perthuis, C., **Newton, P.**, Schaap, B. 2014. REDD+ projects in 2014: an overview based on a new database and typology. Les Cahiers de la Chaire Economie du Climat. Information and debates series. No. 32. Paris.

Newton, P., Fournier, M., Cornwall, M., DeBoer, J., Rosenbach, D.W., Schaap, B., Stock, R., Whittemore, J., Yoders, M., Brodnig, G., Agrawal, A. 2014. Community forest management and REDD+. World Bank, Washington, D.C.

Alves-Pinto H.N., **Newton P.**, Pinto L.F.G. 2013. Certifying sustainability: opportunities and challenges for the cattle supply chain in Brazil. CCAFS Working Paper no. 57. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

Newton, P., Agrawal, A., Wollenberg, E. 2013. Interventions for achieving sustainability in tropical forest and agricultural landscapes. CAPRI-CCAFS Working Paper 110.

Book reviews

Newton, P. 2014. Energy: Overdevelopment and the Delusion of Endless Growth, Tom Butler and George Wuertner. Foundation for Deep Ecology in collaboration with Watershed Media and the Post Carbon Institute (2012).ix + 277 pp. \$32.50, ISBN-13: 978-0970950086 (hardcover). *Biological Conservation* 172: 214

Datasets

Ostrom, E., Huntington, H., Andersson, K., Banana, A., Castallenos, E., Chhatre, A., England, J., Ghate, R., Gombya-Ssembajjwe, W., Karna, B., Leon, R., Liang, W., Marquez, L., Mereno, L.,

Newton, P., Persha, L., Tatomir, J., Salk, C., Tucker, C., Agrawal, A. 2016. IFRI dataset, Online version. 1st edition.

Other publications

Duckworth, J.W., Anak Pattanavibool, **Newton, P.**, Nguyen Van Nhuan. 2008. *Manis javanica*. In: IUCN 2010. IUCN Red List of Threatened Species. Version 2010.

Duckworth, J.W., Steinmitz, R., Anak Pattanavibool, Than Zaw, Do Tuoc, **Newton, P.** 2008. *Manis pentadactyla*. In: IUCN 2010. IUCN Red List of Threatened Species. Version 2010.

Nguyen, V. T., **Newton, P.**, Robertson, S., Bell, D, Clark, V. L. 2008. Tapping into local knowledge to help conserve pangolins in Vietnam. *Proceedings of the workshop on trade and conservation of pangolins native to South and Southeast Asia*: 163

PRESENTATIONS

Contributed

Forests & Livelihoods: Assessment, Research, and Engagement (FLARE) community of practice second annual meeting. *University of Edinburgh, U.K.* Dec 2-5, 2016.

Forests & Livelihoods: Assessment, Research, and Engagment (FLARE) community of practice first annual meeting. *Musée de l'Homme, Paris, France.* Nov 27-30, 2015.

Association of American Geographers Annual Meeting. *Hyatt Regency Hotel, Chicgao, USA.* Apr 21-25, 2015.

Global Land Project 2nd Open Science Meeting. *Berlin, Germany.* Mar 19-21, 2014.

Global Landscapes Forum, COP19. *Warsaw, Poland.* Nov 16-17, 2013.

Association of American Geographers Annual Meeting. *Westin Bonaventure Hotel, Los Angeles, USA.* Apr 9-13, 2013.

19th Annual Conference of the International Society of Tropical Foresters. *Yale School of Forestry & Environmental Studies, Newhaven, USA.* Jan 24-26, 2013.

CAPri & CCAFS workshop: Institutions for Inclusive Climate-Smart Agriculture. *ICRAF, Nairobi, Kenya.* Sept 10-13, 2012.

6th annual conference on Community Based Adaptation. *Melia Hotel, Hanoi, Vietnam.* Apr 19-22, 2013.

25th International Congress for Conservation Biology. *Sky City Auckland Convention Center, Auckland, New Zealand.* Dec 5-9, 2012.

11th Student Conference for Conservation Science. *Cambridge University, Cambridge, UK.* Mar 23-25, 2010.

10th annual conference of the Centre for Ecology, Evolution and Conservation. *University of East Anglia, Norwich, UK*. Feb 25-26, 2010.

Invited

Ecology Department *EcoEcontros* seminar series, *University of São Paulo, São Paulo, Brazil*. Jun 1, 2016.

Geography Department colloquium series, *University of Colorado, Boulder, CO, USA*. Apr 15, 2016.

Environmental Studies Program colloquium series, *University of Colorado, Boulder, CO, USA*. Nov 11, 2015.

Investigating Careers in the Environment (ICE) seminar, *University of Colorado, Boulder, CO, USA*. Sept 29, 2015.

FAPESP-US joint research on the Amazon rainforest, *Wilson Center, Washington, D.C., USA*. Oct 28, 2014.

Environmental Studies Program (job talk), *University of Colorado, Boulder, CO, USA*. Feb 17, 2014.

Department of Earth and Environment (job talk), *Boston University, Boston, MA, USA*. Feb 3, 2014.

Biology Department seminar series. *Aquinas College, Grand Rapids, MI, USA*. Oct 11, 2013.

Technical Workshop on Socio-economic Assessment and Monitoring as part of National Forest Monitoring and Assessment (NFMA). *Food and Agriculture Organization (FAO) of the United Nations, Rome, Italy*. May 22-23, 2013.

Latin America and Caribbean Environment Group. *School of Natural Resources and Environment, University of Michigan, Ann Arbor, MI, USA*. Dec 3, 2012.

School of Natural Resources and Environment (job talk), *University of Michigan, Ann Arbor, MI, USA*. Nov 3, 2011.

Zoology Department seminar series. *Cambridge University, Cambridge, UK*. May 6, 2011.

British Trust for Ornithology seminar series. *BTO, Thetford, UK*. Mar 25, 2011.

Centre for Ecology, Evolution and Conservation weekly seminar series. *University of East Anglia, Norwich, UK*. Nov 23, 2011.

3rd Projeto Médio Juruá workshop (in Portuguese). *Bauana field station, Reserva de Desenvolvimento Sustentável Uacari, Amazonas, Brazil*. Sept 14-15, 2009.

4th ProBUC workshop (in Portuguese), *Bauana field station, Reserva de Desenvolvimento Sustentável Uacari, Amazonas, Brazil*. May 14-16, 2009.

Centre for Ecology, Evolution and Conservation weekly seminar series. *University of East Anglia, Norwich, UK*. Nov 25, 2008.

Centre for Ecology, Evolution and Conservation weekly seminar series. *University of East Anglia, Norwich, UK*. Oct 21, 2008.

Posters

Forests & Livelihoods: Assessment, Research, and Engagement (FLARE) community of practice second annual meeting. *University of Edinburgh, U.K.* Dec 2-5, 2016.

Student Conference for Conservation Science. *American Museum of Natural History, New York, USA*. Nov 3-5, 2010.

CONFERENCES ORGANIZED

‘Forest & Livelihoods: Assessment, Research, and Engagement (FLARE)’ community of practice second annual meeting. Conference coordination committee. *University of Edinburgh, U.K.* Dec 2-5, 2016.

‘Forest & Livelihoods: Assessment, Research, and Engagement (FLARE)’ community of practice first annual meeting. Conference coordination committee. *Musée de l’Homme, Paris, France*. Nov 27-30, 2015.

10th conference of the Centre for Ecology, Evolution and Conservation. Conference coordination committee. *University of East Anglia, Norwich, UK*. Feb 25-26, 2010.

CONFERENCE SESSIONS ORGANIZED

‘Land change effects of governance interventions in agricultural systems: cattle ranching in northern Brazil’. Session co-chair (with Avery Cohn). Global Land Project 2nd Open Science Meeting. *Berlin, Germany*. Mar 19-21, 2014.

‘Managing landscapes for food, fuel, fiber and forests: innovative outlooks in a time of food insecurity and climate change’. Session co-chair (with Xiaoting Hou). Global Landscapes Forum, COP19. *Warsaw, Poland*. Nov 16-17, 2013.

WORKSHOPS ORGANIZED

‘Forests & Livelihoods: Assessment, Research, and Engagement (FLARE)’ community of practice first annual meeting. Workshop co-chair (with Avery Cohn and Juliana Gil). *Musée de l’Homme, Paris, France*. Nov 30, 2015.

‘Scaling up certification in the cattle supply chain in Brazil’. Project and training workshop. Workshop co-chair (with Reem Hajjar). Imaflora. *Piracicaba, Brazil*. May 25-27, 2015.

‘International Forestry Resources & Institutions (IFRI) Research on Forest Social Ecological Systems for Actionable Science’. Venture meeting III. Workshop co-chair (with Arun Agrawal). National Socio-Environmental Synthesis Center (SESYNC). *Annapolis, Maryland, USA*. May 27-28, 2014.

‘International Forestry Resources & Institutions (IFRI) Research on Forest Social Ecological Systems for Actionable Science’. Venture meeting II. Workshop co-chair (with Arun Agrawal). National Socio-Environmental Synthesis Center (SESYNC). *Annapolis, Maryland, USA*. Oct 28-31, 2013.

‘International Forestry Resources & Institutions (IFRI) Research on Forest Social Ecological Systems for Actionable Science’. Venture meeting I. Workshop co-chair (with Arun Agrawal). National Socio-Environmental Synthesis Center (SESYNC). *Annapolis, Maryland, USA*. June 18-19, 2013.

‘Governance of mitigation in agriculture-forest landscapes’ workshop. Session co-chair (with Lini Wollenberg). *Ford Foundation, Jakarta, Indonesia*. Feb 8, 2013.

3rd Projeto Médio Juruá workshop. *Bauana field station, Reserva de Desenvolvimento Sustentável Uacari, Amazonas, Brazil*. Sept 14-15, 2009.

1st Projeto Médio Juruá workshop. *Bauana field station, Reserva de Desenvolvimento Sustentável Uacari, Amazonas, Brazil*. Mar 22-23, 2008.

CONFERENCES ATTENDED

World Congress on Integrated Crop-Livestock-Forestry Systems: 3rd International Symposium on Integrated Crop-Livestock Systems: towards sustainable intensification. *Centro de Convenções Ulysses Guimarães, Brasilia, Brazil*. July 13-17, 2015

A Question of Trust: Global Sustainability Standards Conference. *The Crystal, London, UK*. May 20-21, 2014.

Meeting on Tropical Forests, Climate Change, Integrated Reporting and the Post-2015 Sustainable Development Goals. The Prince’s Charities: International Sustainability Unit. *The Royal Society, London*. Nov 20, 2013.

UNFCCC Climate Change Conference (COP 19). *Warsaw, Poland*. Nov 18, 2013.

Planet Under Pressure. *London International Convention Centre, London, UK*. Mar 26-29, 2012.

Beyond Carbon: Ensuring Justice and Equity in REDD+ Across Levels of Governance *University of Oxford, UK*. Mar 23-24, 2012.

WORKSHOPS & SYMPOSIA ATTENDED

Improving conservation outcomes from supply-chain interventions *Gordon & Betty Moore Foundation, Palo Alto, CA. Apr 20-22, 2016. Invited*

Sustainable forests and livelihoods network: community of practice planning meeting. *Rights and Resources Group, Washington, D.C. Mar 11, 2015.*

Community land tenure: CIFOR, RRI, WRI, & IFRI workshop. *Rights and Resources Group, Washington, D.C. Nov 10, 2014.*

Teaching Socio-environmental Synthesis with Case Studies, *National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD. July 15-18, 2014.*

Climate and Land Use Alliance retreat. *Cavallo Point, Sausalito, CA. Mar 10-13, 2014.*

FAO technical workshop on socio-economic assessment and monitoring. *FAO, Rome. May. 22-23, 2013.*

The Forests Dialogue: Food, Fuel, Fiber and Forests (4Fs) field dialogue. *Capão Bonito, Brazil. Nov 11-14, 2012.*

DISCCRS VII Symposium (DISsertations initiative for the advancement of Climate Change ReSearch). *La Foret Conference Center, Colorado Springs, CO. Oct 13-20, 2012.*

FIELD EXPERIENCE

2014	Kayapó Indigenous Territory, Pará state, Brazil (4 days)
2013	Mato Grosso state, Brazil (2 weeks)
2013	Katingan Project, Central Kalimantan, Indonesia (3-day field visit)
2012	Capão Bonito, São Paulo state, Brazil (3-day field visit)
2012	Ba Thuoc and Hau Loc districts, Thanh Hoa province, Vietnam (4-day field visit)
2007 – 2010	Médio Juruá region of Amazonas state, Brazil (14 months)
2007	Cuc Phuong, Khe Net, and Song Thanh National Parks, Vietnam (3 months)
2003 – 2006	Makgadikgadi Pans and Linyanti wildlife reserve, Botswana (3 years)
2003	Kibale National Park, Uganda (2 months)
2001 – 2002	Sebangau forest, Central Kalimantan, Indonesia (4 months)

ADDITIONAL TRAINING

- 2015 Faculty Teaching Excellence Program (FTEP) seminars, University of Colorado, Boulder
- 2015 New Assistant Professor Program (NAPP) seminars, University of Colorado, Boulder
- 2013 Responsible Conduct of Research seminar series, University of Michigan, USA
- 2009 Generalized Linear Models using R. Lancaster University, UK
- 2009 Advances in population ecology. Imperial College, UK
- 2007 Workshop on pangolin ecology and conservation. Phnom Penh, Cambodia
- 2003 Tropical Biology Association field course. Kibale National Park, Uganda

SKILLS

- Software R, ArcGIS, SigmaPlot, SPSS 22.0, Microsoft Office, WordPress
- Languages Brazilian Portuguese (proficient); French, German & Spanish (basic reading); English (native)

TEACHING

TEACHING GRANTS & FELLOWSHIPS

- 2015 – 2016 **School of Environment and Sustainability**, Teaching Scholars Program, University of Colorado, Boulder
- 2015 **University of Colorado Boulder Faculty Teaching Excellence Program (FTEP) New Assistant Professor Program (NAPP) course development grant**, ‘Sustainable Food Systems’. (US \$4,000. PI)

PUBLICATIONS

Newton, P., Cohn, A.S. 2015. Multi-‘steak’holder sustainability: reduced deforestation and the cattle agreement in Brazil. A case-study for teaching. Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland. Available at: <https://www.sesync.org/for-you/educator/case-study-collection>.

PROGRAM DEVELOPMENT

Faculty coordinator of the ‘*Sustainable Food Systems*’ specialization within the Masters of the Environment (MENV) professional graduate degree program, in the Environmental Studies Program, University of Colorado Boulder.

TEACHING DEVELOPMENT

2016 Member of FTEP’s Making Teaching Visible project: developing case material on course design to be shared online.

2016 Guest speaker at an FTEP NAPP event: applying for grants for course (re)design

COURSES TAUGHT

2016 **Instructor**, Environmental Studies Program class (ENVS 5001): *Policy, Science, and the Environment*. 20 graduate students. University of Colorado, Boulder.

2016 **Instructor**, Environmental Studies Program cornerstone class (ENVS 3525): *Sustainable food systems*. 53 undergraduate students. University of Colorado, Boulder.

2016 **Instructor**, Environmental Studies Program capstone class (ENVS 4800): *Deforestation and food*. 21 students. University of Colorado, Boulder.

2016 **Guest speaker, Instructor**: Bruce Goldstein. University of Colorado, Boulder.

2016 **Guest speaker**, CVEN 5929 Sustainable community development II. *Instructor*: Rita Klees. University of Colorado, Boulder.

2015 **Instructor**, Environmental Studies Program cornerstone class (ENVS 3525): *Sustainable food systems*. 47 students. University of Colorado, Boulder.

2015 **Instructor**, Environmental Studies Program capstone class (ENVS 4800): *Global food systems and tropical land use change*. 25 students. University of Colorado, Boulder.

2015 **Guest speaker**, CVEN 5929 Sustainable community development II. *Instructor*: Rita Klees. University of Colorado, Boulder.

2015 **Guest speaker**, ENVS 5000 Policy, Science and the Environment. *Instructor*: Sharon Collinge. University of Colorado, Boulder.

2015 **Guest speaker**, PSCI 2116 Introduction to Environmental Governance. *Instructor*: Krister Andersson. University of Colorado, Boulder.

- 2012 **Guest speaker**, Institutions and Resources: Theory and Methods Research Seminar (NRE 501): *Research design and proposal development for resource governance* and *PES and REDD+ in theory and practice*. 20 students. School of Natural Resources and Environment, University of Michigan.
- 2011 **Guest speaker**, Issues in Conservation Seminar (BIO-M68Y) of the M.Sc. in Applied Ecology and Conservation: *Market-based mechanisms for conservation*. 30 students. School of Biological Sciences, University of East Anglia, UK.
- 2011 **Environmental Educator**, tropical forests specialist. Designed and delivered half-day modules that satisfied the learning skills and attainment targets of the UK National Curriculum. 20-60 students per class. Schools across the UK.
- 2010 – 2011 **Teaching assistant**, undergraduate courses in Statistics (ENV-1A51). Instruction in statistical and computing methods. School of Environmental Sciences, University of East Anglia, UK.
- 2008 – 2010 **Teaching assistant**, undergraduate courses in Aquatic ecology (ENV-2A01C). Instruction in field and laboratory methods. School of Environmental Sciences, University of East Anglia, UK.
- 2008 – 2010 **Teaching assistant**, undergraduate courses in Biodiversity (BIO-1A03). Instruction in laboratory methods. School of Biological Sciences, University of East Anglia, UK.

STUDENTADVISEES

Doctoral students

- 2016 – **Mauro Capelari**. PhD candidate, University of Brasilia, Brazil. Member of thesis committee.
- 2016 – **Michael Drake**. PhD candidate, Environmental Studies Program, University of Colorado, Boulder. Member of thesis committee.
- 2016 – **Juhi Huda**. PhD candidate, Environmental Studies Program, University of Colorado, Boulder. Member of thesis committee.
- 2016 – **Nick Schulte**. PhD candidate, Environmental Studies Program, University of Colorado, Boulder. Member of thesis committee.
- 2016 – **Kelly Watson**. PhD candidate, Environmental Studies Program, University of Colorado, Boulder. Member of thesis committee.
- 2016 **Alex Lee**. PhD candidate, Environmental Studies Program, University of Colorado, Boulder. Member of thesis committee.

Master's students

- 2016 – **Ashley Dancer**. MS-MBA candidate, Environmental Studies Program, University of Colorado, Boulder. Primary advisor.
- 2014 – 2016 **Meghan Bogaerts, Lora Cirhigi, Mikaela Rodkin & Ian Robinson**. Master's students, School of Natural Resources and Environment, University of Michigan. Co-advisor.
- 2013 – 2014 **Ben Chen, Hsuan-Wen Kuo, Chania Niljinda, Melisa Ongun & Paul Winters**. Master's students, School of Natural Resources and Environment, University of Michigan. Co-advisor.
- 2012 – 2013 **Joel DeBoer, Derrick Rosenbach & Jessica Whittemore** Master's students, School of Natural Resources and Environment, University of Michigan. Co-advisor.

Undergraduates

- 2016 – 2017 **Madeline Gaffigan**. Undergraduate student, Environmental Studies Program, University of Colorado Boulder. Primary advisor.
- 2016 – 2017 **Emilie Adamovic**. Undergraduate student, Environmental Studies Program, University of Colorado Boulder. Primary advisor.
- 2016 **Mackenzie Johnson**. Undergraduate student, Environmental Studies Program, University of Colorado Boulder. Member of thesis committee.
- 2015 – 2016 **Zoë Sigle**. Undergraduate student, Environmental Studies Program, University of Colorado Boulder. Primary advisor.
- 2015 – 2016 **Kristen Smith**. Undergraduate student, Environmental Studies Program, University of Colorado Boulder. Co-advisor.
- 2015 – 2016 **Camille Zwaan**. Undergraduate student, Evolutionary Biology, University of Colorado Boulder. Co-advisor.

SERVICE

REVIEWER

Journals

Agricultural Systems; Annals of Forest Science; Climatic Change; Conservation Letters; Ecology and Society; Ecosphere; Endangered Species Research; Environment, Development and Sustainability; Environmental Conservation; Forest Ecology and Management; Forest Policy and

Economics; Forests, Trees and Livelihoods; Frontiers in Ecology and the Environment; Global Environmental Change; International Journal of the Commons; Journal of Environmental Management; Journal of Ethnobiology and Ethnomedicine; Journal of Latin American Geography; Nature Climate Change; Oryx; PLOS ONE; Science; Solutions; Sustainability; Tropical Conservation Science

Reports

World Resources Institute

Grants

National Science Foundation; Critical Ecosystem Partnership Fund

Education modules

Center for International Forestry; Network of Conservation Educators and Practitioners

EXAMINER

2012 External Ph.D. examiner, University of Central Queensland

2011 Internal M.Sc. examiner, University of East Anglia (3 students)

COMMITTEES – *External*

2012 – 2014 IFRI partner representative at Rights and Resources Initiative coalition meetings

2012 IUCN-SSC Pangolin Specialist Group member

COMMITTEES – *Environmental Studies Program, University of Colorado Boulder*

2016 Peer classroom evaluation committee (committee chair)

2015 – Executive committee

2015 Peer classroom evaluation committee (member)

2015 – 2016 Undergraduate curriculum committee

2015 Search committee: Global Environmental Affairs certificate coordinator

COMMUNITY ENGAGEMENT & OUTREACH

Guest speaker at *A Dialogue: How our eating habits affect our environment*, organized by the Sierra Club Rocky Mountain Chapter. *The Alliance Center, Denver, CO*. Oct 18, 2016.

Invited panelist on a panel discussion on *Genetically Modified Organisms*, during a workshop on *Teaching Controversial Science Topics* for K12 educators in Colorado, organized by the Department of Ecology and Evolutionary Biology at CU Boulder. Aug 27, 2016.

Provided testimony to the Boulder County Commissioners during public hearings on their decision whether to continue to allow genetically modified crops to be grown on Open Space agricultural land. Feb 19, 2016.

MEDIA

- 2016 Thought for Food podcast (*interview*) – available [here](#).
- 2016 Boulder Daily Camera Opinion article (*author*) – available [here](#).
- 2015 ENVS alumni magazine (*interview*) – available [here](#).
- 2015 ENVS alumni magazine (*interview*) – available [here](#).
- 2014 Shapiro Science Library 7th Annual Science Covers Celebration (*honoree*)
- 2014 New Scientist magazine (*interviewee*)
- 2013 Ecoagriculture Partners blog (*author; images*) - available [here](#).
- 2013 CCAFS blogs (*author; images; interviewee*) - available [here](#), [here](#), and [here](#).
- 2012 IFRI website and communications strategy (*coordinator*)
- 2012 Food Climate Research Network (*interview*) - available [here](#).
- 2012 NERC Planet Earth magazine (*authored article*) - available [here](#).
- 2012 Economic Botany June 2012 issue (*cover images*)
- 2008 NERC Planet Earth magazine (*interviewee*) - available [here](#).