

## **Rutherford (Rud) Vance Platt**

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### **EDUCATION**

*University of Colorado at Boulder*, Department of Geography, Boulder, Colorado (1999-2004).  
Ph.D., August 2004. Dissertation: *Modeling Wildfire Mitigation and Ecological Restoration in the Wildland-Urban Interface*.  
• M.A., May 2001. Thesis: *Modeling Land Use Change: A Comparison of Cellular Automata and Spatial Regression*.

*Bowdoin College*, Brunswick, Maine.  
A.B., Economics and Environmental Studies, 1996.

### **ACADEMIC POSITIONS**

*Professor*, Department of Environmental Studies. Gettysburg College, Gettysburg, Pennsylvania. 2017-present. (Chair of department, 2012-present)

*Associate Professor*, Department of Environmental Studies. Gettysburg College, Gettysburg, Pennsylvania. 2010-2017.

*Visiting Scholar*, Harvard Center for Geographic Analysis. Harvard University, Cambridge, Massachusetts. 2015-2016.

*Assistant Professor*, Department of Environmental Studies. Gettysburg College, Gettysburg, Pennsylvania. 2004-2010.

### **PEER REVIEWED PUBLICATIONS**

Platt, R.V., M.V. Ogra, R. Badola, S.A. Hussain. 2016. Conservation-induced resettlement as a driver of land use change in India: An object-based trend analysis. *Applied Geography*. 69:75-86.

Platt, R.V. 2014. Wildfire hazard in the home ignition zone: An object-oriented analysis integrating LiDAR and VHR Satellite Imagery. *Applied Geography*. 51: 108-117.

Sherriff, R.L., R. Platt, T.T. Veblen, T.L. Schoennagel, M.H. Gartner. 2014. Historical, Observed, and Modeled Wildfire Severity in Montane Forests of the Colorado Front Range. *PLOS ONE*. 9(9): e106971.

Commito, J.A., A.E. Commito, R.V. Platt, B.M. Grupe, W.E. Dow, N.J. Gownaris, K.A. Reeves, and A.M. Vissicelli. 2014. Recruitment facilitation and spatial pattern formation in soft-bottom mussel beds. *Ecosphere*. 5(12): 1-26.

Walter, J.A. and R.V. Platt. 2013. Multi-temporal analysis reveals that predictors of mountain pine beetle infestation change during outbreak cycles. *Forest Ecology and Management*. 302: 308-318.

- Platt, R.V. 2012. Mapping settlements in the wildland urban interface: a decision tree approach. *Professional Geographer*. 64(2): 262-275.
- Platt, R.V., T. Schoennagel, T.T Veblen, R.L. Sherriff. 2011. Modeling wildfire potential in residential parcels: a case study of the north-central Colorado Front Range. *Landscape and Urban Planning*. 102: 117-126.
- Platt, R.V. 2010. The wildland-urban interface: evaluating the definition effect. *Journal of Forestry*. 108(1): 9-15.
- Platt, R.V. and T. Schoennagel. 2009. An object-oriented approach to assessing changes in tree cover in the Colorado Front Range 1938-1999. *Forest Ecology and Management*. 258: 1342-1349.
- Platt, R.V., T.T. Veblen, R.L. Sherriff. 2008. A spatial model of mechanical thinning location and forest management outcomes in the wildland-urban interface. *Natural Hazards Review*. 9(4): 199-208.
- Platt, R.V. and L.M. Rapoza. 2008. An evaluation of an object-oriented paradigm for land use/land cover classification. *Professional Geographer*. 60(1): 87-100.
- Platt, R.V., T.T. Veblen, R.L. Sherriff. 2006. Are wildfire mitigation and restoration of historic forest structure compatible? A Spatial Modeling Assessment. *Annals of the Association of American Geographers*. 93(3): 455-470.
- Platt, R.V. 2006. A model of land use change and wildfire mitigation. *Environment and Planning B: Planning and Design*. 33: 749-765.
- Platt, R.V. and F.H. Goetz. 2004. A Comparison of AVIRIS and landsat for land use classification at the urban fringe. *Photogrammetric Engineering and Remote Sensing*. 70(7): 813-819.
- Platt, R.V. 2004. Local and global analysis of fragmentation in a Colorado mountain region. *Agriculture, Ecosystems and Environment*. 101: 207-218.

## **SELECTED PRESENTATIONS**

- Platt, R.V. 2017. Trend analysis of post-fire vegetation greenness in Yellowstone National Park, USA. EARSel Forest Fires Special Interest Group Workshop. September, 2017, Chania, Greece.
- Platt, R.V., D. Manthos, Y. Franklin, and J. Amos. 2016. Detecting the creation and removal of fracking impoundments using trend analysis of Landsat imagery. Annual Meeting of the Association of American Geographers. March 2016, San Francisco.
- Platt, R.V., J Bloomquist, and C. Martinez. 2015. Mellon Crazy: Three Paths to Robust Research Experiences for Students. Gettysburg College Friday Faculty Lunch. November 13, 2015.
- Platt, R.V. 2015. Remote Sensing of Land Use and Land Cover: from Pixels to Objects and Back Again. Gettysburg College Friday Faculty Lunch. September 25th, 2015.
- Platt, R.V. and M.V. Ogra. 2015. Object-based trend analysis of land use change within a wildlife corridor in India. EARSel Workshop: Temporal Analysis of Satellite Images. Stockholm, Sweden. June, 2015.

- Platt, R.V. 2015. Geographic object-based image analysis: promise and pitfalls. ABCD GIS Seminar Series. Harvard Center for Geographic Analysis. Cambridge, MA. March 26<sup>th</sup>, 2015.
- Platt, R.V., and M.V. Ogra. 2014. Conservation-induced resettlement as a driver of land use change in India: an object-oriented image analysis. Global Land Project 2<sup>nd</sup> Open Science Meeting. Berlin, Germany. March, 2014.
- Platt, R.V., 2013. Assessing wildfire hazard to structures in the wildland-urban interface: a data fusion approach. Annual Meeting of the Association of American Geographers. Los Angeles, CA. April, 2013.
- Platt, R.V., 2011. Does defensible space help structure survival? A case study of the Fourmile Fire. Annual Meeting of the Association of American Geographers. Seattle, WA. April 14<sup>th</sup>, 2011.
- Platt, R.V., 2010. The wildfire risk trajectory of exurban development in the Colorado Front Range. Annual Meeting of the Association of American Geographers. Washington DC. April 14<sup>th</sup>-18<sup>th</sup>, 2010.
- Platt, R.V. and T. Schoennagel 2008. Have forests really become denser? An object-oriented assessment of a key premise in wildfire policy. GEOBIA 2008 – Pixels, Objects, Intelligence: Geographic Object Based Image Analysis for the 21<sup>st</sup> Century. Calgary, Canada. August 6-7, 2008.
- Platt, R.V. and T. Schoennagel 2008. Have forests really become denser? An object-oriented assessment of a key premise in wildfire policy. Annual Meeting of the Association of American Geographers. Boston, MA. April 19<sup>th</sup>, 2008.
- Platt, R.V. 2007. Wildfire policy in the Rocky Mountains, USA: One Case Study, Two GIS Analyses. Mudumali Field Station, Indian Institute of Science, Bangalore. October 16<sup>th</sup>, 2007.
- Platt, R.V. 2007. A GIS model of structure location for wildfire hazard assessment. Annual Meeting of the Association of American Geographers. San Francisco, CA. April 17<sup>th</sup>, 2007.
- Platt, R.V., T.T. Veblen, and R. Sherriff. 2006. Uncertainty in the wildland-urban interface: scenarios of exurban development, climate, and historic fire regimes. Annual Meeting of the Association of American Geographers. Chicago, IL. March 7<sup>th</sup>, 2006.
- Platt, R.V., T.T. Veblen, and R. Sherriff. 2005. Modeling the compatibility of wildfire mitigation and ecological restoration in the wildland-urban interface. Annual Meeting of the Association of American Geographers. Denver, CO, April 7<sup>th</sup>, 2005.
- Platt, R.V., 2003. Global and local analysis of fragmentation in a mountain region of Colorado. Poster Session, Framing Land Use Dynamics International Conference. Utrecht, the Netherlands, April 2003.
- Platt, R.V., 2002. A Comparison of hyperspectral and multispectral imagery for land use mapping. International Institute of Applied Systems Analysis. Laxenburg, Austria, July 2002.
- Platt, R.V., 2001. Models of land use change in Colorado and lessons for MERMAID. MERMAID (Mauritius Environmental Resource Management and Industrial Development) Workshop. Flic-en-Flac, Mauritius, June 2001.

## FELLOWSHIPS AND GRANTS

*Conservation-Induced Displacement and Deforestation Outside of Rajaji National Park, India. An Object-Oriented Remote Sensing Analysis.* Gettysburg College Research & Professional Development Grant, May 2012.

*Does Defensible Space Help Structure Survival? A Case Study of the Fourmile Fire in Colorado.* Gettysburg College Research & Professional Development Grant, May 2011.

*Johnson Teaching Grant.* Funds to support course development for first year seminar ‘Sustainability or Collapse?’ August 2010

*Collaborative Research: Fire Risk and Ecological Integrity in the Wildland Urban Interface of the Colorado Front Range.* National Science Foundation, Proposal number 0540928. 2006-2009.

*Hewlett Foundation Grant for Student Portfolio Development.* 2007.

*A Temporal-Spatial Assessment of Residential Development in the Wildland-Urban Interface.* Gettysburg College Research & Professional Development Grant, May 2006.

*EPA STAR Fellowship.* U.S. Environmental Protection Agency. 2001-2004.

*International Institute of Applied Systems Analysis (IIASA).* 2002. Young Scientist Summer Program, Laxenburg, Austria. 2002.

## Workshops and Session Organizing

“*Hazards and GIScience*” Session organizer and chair at the Annual Meeting of the Association of American Geographers most years from 2005-2018.

*Workshop on Google Earth and GPS for Inuit Research Assistants.* Clyde River, Nunavut (Arctic Canada). August 17<sup>th</sup>, 2010.

“*Exploring Geographic Information Systems in Research and Teaching*”. Full day training workshop for Gettysburg College Faculty. Center for Creative Teaching. May 11<sup>th</sup> 2005.

## PROFESSIONAL TRAINING

*R Workshops -- Basic R Programming for Data Analysis, Introduction to R Graphics with ggplot2, R Regression Models.* Institute for Quantitative Social Science, Harvard University. February-March 2015.

*Geo for Higher Education Summit:* Google Headquarters, Mountain View, CA. July 22-24, 2013.

*Data Visualization with R (run by Michael Lavine):* National Institute for Technology in Liberal Education. February, 2011.

*Geospatial Statistics Workshop (run by William Huber):* National Institute for Technology in Liberal Education. February, 2010.

*Multilevel Modeling: An Introduction.* Annual Meeting of the Association of American Geographers. Boston, MA. April 17<sup>th</sup>, 2008.

*Analyzing Spatial Data with R.* Annual Meeting of the Association of American Geographers. San Francisco, CA. April 17<sup>th</sup>-21<sup>st</sup>, 2007.

*Teaching GIS in Liberal Arts Colleges.* National Institute for Technology and Liberal Education. Saratoga Springs, NY. June 20-21<sup>st</sup>, 2005.

*Professional Development Workshop for Early Career Faculty.* Geography Faculty Development Alliance. Boulder, CO. June 4-11<sup>th</sup>, 2005.

*Building Geodatabases I.* ESRI Training Course. Washington D.C. May 16<sup>th</sup>-18<sup>th</sup>, 2005.

*Advanced Segmentation and Classification with eCognition.* eCognition Training Workshop. Baltimore, MD. March 6<sup>th</sup>, 2005.

*Introduction to Geoprocessing Scripts using Python.* ESRI Training Course. Washington D.C. October 28<sup>th</sup>-29<sup>th</sup> 2004.

*Young Scientist Summer Program.* International Institute of Applied Systems Analysis (IIASA) Laxenburg, Austria. June-August 2002.

*Introduction to Programming ArcObjects with VBA.* Kuhns and Associates. GIS in the Rockies, Denver, CO. October 9<sup>th</sup> 2002.

*Studying Skillful Teaching.* Research for Better Teaching. Wellesley College, MA. July 5-11<sup>th</sup> 1998.

#### **SELECTED SERVICE ACTIVITIES**

- Chair of the Environmental Studies Department, 2012-present
- Chair of Department Chairs Technology subcommittee 2013-present
- Director of GIS lab, 2004-present
- Web liaison for Environmental Studies Department, 2006-present
- Chair of the Gettysburg College Sustainability Committee, 2011-2013
- Johnson Center for Creative Teaching and Learning Advisory Committee, 2010-2012
- Faculty Finance Committee, 2008
- Faculty Council, 2008
- Student Enrollment and Retention Committee (SERC), 2005-2008

#### **COURSES TAUGHT**

- FYS105 Sustainability or Collapse? Environmental Change and the Past, Present, and Future of Society
- ES121 Environmental Issues
- ES230 Introduction to GIS
- ES263 Remote Sensing of the Environment
- ES312 Environmental Applications of GIS
- ES400 The Sustainable Campus
- ES400 The Automobile and its Effects on American Culture and Environment

## STUDENT RESEARCH AND FULL-CREDIT INTERNSHIPS

- Laura Duquette '18, internship at PA Office of Attorney General and research paper on environmental enforcement.
- Caitlin Rasche '18, internship at Annapolis Maritime Museum and research paper on non-traditional environmental education.
- Alec Cottone '18, internship at Pennsylvania Environmental Council and research paper on illegal dump sites.
- Harrold Thoman '18, internship at Strawberry Hill Nature Preserve and GIS project on emergency evacuation planning (not for credit).
- Kelly Collins '16, honors thesis project "Effects of Hydraulic Fracturing Infrastructure on Viewshed, Soundshed, and Land Cover in Pennsylvania"
- Katherine Cavanaugh '16, honors thesis project "Forest Treatments, Wildfire, Pine Beetles, and Development: Trend analysis of Forest Disturbance on the Colorado Front Range"
- Micaela Edelson '17, Sam Donnelly '17, Caitlin Rasche '17 – research assistants for Platt *et al.* in prep.
- Nick Ferreri '14, independent study project on the use of GIS in Adams County planning.
- Ethan Dively '14, independent study project "Conservation-Based Displacement and Forest Resource Use Outside of Rajaji National Park, India".
- Matthew Toich '12 and Julie Ivers '12, research assistants for Platt 2014
- Jon Walter '10, honors thesis project: "Detection and Modeling of Mountain Pine Beetle Red Attack in Colorado, 2003-2009"
- Danielle Bates '10, research assistant for Platt and Schoennagel 2009.
- Matthew Heiser '09, research assistant for Platt 2010
- Andy Padilla '08, independent study project: "Remote Sensing of Mongolian Archeological Structures"
- Matthew Shank '08 research assistant for Platt 2010.
- Andrew Rohrbaugh '07, honors thesis: "An Analysis of Land Use Change in the Mid-Atlantic states from 1992-2002".
- Lauren Rapoza '06, research assistant and co-author for Platt and Rapoza 2008.
- Jennie Fiorito '06, honors thesis: "Conservation Potential and Land Use Fragmentation in Maryland".
- Sarah Lilley '06, honors thesis "A Comparison of Road Data Sources for Assessing Fragmentation in an Agricultural Landscape".

## PROFESSIONAL ASSOCIATIONS

- Association of American Geographers
- Association for Environmental Studies and Sciences
- American Society for Photogrammetry & Remote Sensing