

Dr. Bartosz P. Grudzinski

Department of Geography, Miami University
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Education

Ph.D., Geography, Kansas State University, 2010-2014

Dissertation: Influence of Watershed Grazing Treatment on Stream
Geomorphology in Tallgrass Prairie Headwater Streams

Advisor: Dr. Melinda D. Daniels

M.S., Geography, Northern Illinois University, 2008-2010

Thesis: Estimating Hydraulic Conductivity from Drainage Patterns Derived From
a DEM –A Case Study in the Mare Tyrrhenum Quadrangle on Mars.

Advisor: Dr. Wei Luo

B.S., Geography, Eastern Illinois University 2004-2008

Advisor: Dr. Michael W. Cornebise

Professional Appointments

Assistant Professor (Fall 2015-Current), Miami University, Department of Geography

Visiting Professor (Fall 2014-Spring 2015), Kansas State, Department of Geography

Publications

Grudzinski, B.P., Ruffing, C.M., Daniels, M.D. (In review), Bison and cattle grazing impacts on baseflow sediment concentrations in Tallgrass Prairie streams. *Annals of the American Association of Geographers*.

Grudzinski, B.P., Daniels, M.D. (In review), Bison and cattle grazing impacts on grassland stream morphology in the Flint Hills of Kansas. *Journal of Rangeland Ecology and Management*.

Grudzinski, B.P., Daniels, M.D. Anibas, K., Spencer, D (2016), Watershed grazing management, bare ground coverage, and links to suspended sediment concentrations in grassland headwater streams. *Journal of Aquatic Water Resources Association*, 52, 1 16-30.

Walter, K.D., Gido, K., While, M.R., Daniels, M.D., **Grudzinski, B.P.** (2015), The stream biome gradient concept: controlling factors of streams across broad biogeographic scales. *Freshwater Science*, 34, 1 1-19.

Russell, D.M., **Grudzinski, B.P.**, Dodds, W.K., Daniels, M., Skibbe, A., Joern, A. (2013), Blazing and grazing: Influences of fire and bison (*bos bison*) on the sediment and nutrient dynamics of tallgrass prairie streams. *Freshwater Science*, 32, 3 779-791.

Luo, W., **Grudzinski, B.P.**, Pederson, D. (2011), Estimating hydraulic conductivity for the Martian subsurface based on drainage patterns – A case study in the Mare Tyrrhenum Quadrangle. *Geomorphology*, 125, 3 414-420.

Luo, W., **Grudzinski, B.P.**, Pederson, D. (2010), Estimating hydraulic conductivity from drainage patterns -A case study in the Oregon Cascades. *Geology*, 38, 4 335-338.

Funding and Awards

- Miami University**, Committee on Faculty Research Grant (2015) \$12,195.
- Miami University**, Summer Research Grant for Tenure Track Faculty (2015) \$5000.
- National Science Foundation**, Doctoral Dissertation Research Improvement Grant (2012) \$15,534.
- Kansas State University**, Department of Geography, Geography Graduate Research Grant (2011) \$1500.
- Kansas State University**, Graduate Student Council, Travel Grant (2013) \$500.
- Kansas State University**, Graduate Student Council, Travel Grant (2011) \$150.
- First Place, Graduate Student Paper Competition**, West Lakes Association of American Geographers, 2013 (University of Wisconsin, Eau Claire, WI) *"Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains"* BP Grudzinski*, MD Daniels \$175.

Professional Presentations (* indicates presenter)

- American Association of Geographer, 2017** (Boston, MA) *"Beaver habitat selection and impacts on sediment and nutrient concentrations in a southwestern Ohio Stream"* BP Grudzinski*, D Kist, M Jojola
- American Association of Geographer, 2017** (Boston, MA) *"Analyzing watershed characteristics to determine baseflow sediment and nutrient drivers in SW Ohio rivers"* R Spahr*, J Lazar, BP Grudzinski
- American Association of Geographer, 2017** (Boston, MA) *"Land use impacts on storm flow sediment and nutrient concentrations in SW Ohio Streams"* J Lazar*, R Spahr, BP Grudzinski
- Society for Freshwater Science, 2016** (Sacramento, CA) *"Bison and cattle grazing management, bare ground coverage, and links to suspended sediment concentrations in grassland streams"* BP Grudzinski*, MD Daniels
- American Association of Geographers, 2015** (Chicago, IL) *"Climatic influence and temporal viability in suspended sediment dynamics in actively grazed grassland streams"* BP Grudzinski*, CM Ruffing, P Barnes, MD Daniels
- American Association of Geographers, 2014** (Tampa, FL) *"Influence of watershed grazing management on bare ground production and sediment dynamics in grassland headwater streams"* BP Grudzinski*, MD Daniels, K Anibas, D, Spencer
- American Geophysical Union, 2013** (San Francisco, CA) *"Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains"* BP Grudzinski*, MD Daniels
- West Lakes Association of American Geographers, 2013** (University of Wisconsin, Eau Claire, WI) *"Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains"* BP Grudzinski*, MD Daniels
- Geological Society of America, 2013** (Denver, CO) *"Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains"* BP Grudzinski*, MD Daniels

Grasslands Symposium, 2013 (Manhattan, KS) *“Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains”* BP Grudzinski*, MD Daniels

Association of American Geographers, 2013 (Los Angeles, CA) *“Influence of grazing treatments and riparian protection on stream geomorphology and sediment concentrations in the Flint Hills and Osage Plains”* BP Grudzinski*, MD Daniels

West Lakes-East Lakes Association of American Geographers, 2012 (Northern Illinois University, DeKalb, IL) *“Influence of Grazing Treatments on Stream Geomorphology in the Flint Hills, Kansas”* BP Grudzinski*, MD Daniels

Long Term Ecological Research -All Scientists Meeting, 2012 (Estes Park, CO) *“Influence of Grazing Treatments on Nutrient, Bacteria, and Suspended Sediment Concentrations and Channel Geometry in the Flint Hills, Kansas”* BP Grudzinski*, D Larson, MD Daniels

Konza Prairie Annual Meeting, 2012 (Manhattan, KS) *“Influence of Grazing Treatments on Nutrient and Bacteria Concentrations in the Flint Hills, Kansas”* BP Grudzinski*, D Russell, MD Daniels

Konza Prairie Annual Meeting, 2012 (Manhattan, KS) *“Blazing and Grazing: Influence of Fire and Bison on Tallgrass Prairie Streams”* DM, Larson*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern

Society of Freshwater Science, 2012 (Louisville, KY) *“Blazing and Grazing: Influence of Fire and Bison on Tallgrass Prairie Streams”* DM, Larson*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern

American Geophysical Union, 2011 (San Francisco, CA) *“Hydrology and Geomorphology of Tallgrass Prairie Intermittent Headwater Streams”* MD Daniel*, BP Grudzinski

Binghamton Geomorphology Symposium, 2011 (University of South Alabama, Mobile, AL) *“Impact of Cattle and Bison Grazing on Stream Morphology in a Tallgrass Prairie”* BP Grudzinski*, MD Daniels

Grasslands in a Global Context, 2011 (Konza Prairie Biological Station, Manhattan, KS) *“Sediment Quantity in Pristine Prairie Streams: Do Burning and Bison Have an Effect”* DM Russell*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern

Grasslands in a Global Context, 2011 (Konza Prairie Biological Station, Manhattan, KS) *“Impact of Grazing Treatments on Stream Substrate and Channel Geometry in the Flint Hills, Kansas”* BP Grudzinski*, MD Daniels

Great Plains Rocky Mountains Association of American Geographers, 2011 (University of Colorado, Denver, CO) *“Impact of Cattle and Bison Grazing on Stream Morphology in a Tallgrass Prairie”* BP Grudzinski*, MD Daniels

Annual Konza Prairie Workshop, 2011 (Manhattan, KS) *“Influence of grazing treatments on stream substrate and channel geometry in the Flint Hills, Kansas.”* BP Grudzinski*, MD Daniels

Annual Konza Prairie Workshop, 2011 (Manhattan, KS) *“Influence of grazing treatments and riparian management on the geomorphology of prairie streams, Flint Hills, Kansas”* MD Daniels*, BP Grudzinski

- Annual Konza Prairie Workshop, 2011** (Manhattan, KS) “*Sediment quantity in pristine prairie streams: Do burning and bison have an effect?*” DM Russel*, WK Dodds, BP Grudzinski, MD Daniels
- Association of American Geographers Annual Meeting, 2011** (Seattle, WA) “*Impact of Grazing Treatments on Stream Geomorphology in the Flint Hills, Kansas*” BP Grudzinski*, MD Daniels
- Kansas Natural Resources Conference, 2011** (Wichita, KS) “*Sediment Quantity in Pristine Prairie Streams: Do Burning and Bison Have an Effect?*” DM Russell*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern
- Kansas Natural Resources Conference, 2011** (Wichita, KS) “*Impact of Grazing Treatments on Stream Substrate and Channel Geometry in the Flint Hills, Kansas*” BP Grudzinski*, MD Daniels
- North American Benthological Society, 2011** (Providence, RI) “*Sediment Quantity in Pristine Prairie Streams: Do Burning and Bison Have an Effect?*” DM Russell*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern
- Great Plains Bioassessment Symposium 2011** (Lawrence, KS) “*Sediment quantity in pristine prairie streams: do burning and bison have an effect?*” DM Russell*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern
- Konza LTER NSF Site Review, 2011** (Konza Prairie Biological Station, Manhattan, KS) “*Impact of Grazing Treatments on Stream Substrate and Channel Geometry in the Flint Hills, Kansas*” BP Grudzinski*, MD Daniels
- Konza LTER NSF Site Review, 2011** (Konza Prairie Biological Station, Manhattan, KS) “*Sediment Quantity in Pristine Prairie Streams: Do Burning and Bison Have an Effect?*” DM Russell*, BP Grudzinski, WK Dodds, MD Daniels, A Skibbe, A Joern.
- Kansas State Research Forum, 2010** (Kansas State University, Manhattan, KS) “*The Influence of Grazing on Headwater Channel Characteristics in Tall-Grass Prairie*” BP Grudzinski*, MD Daniels
- Geological Society of America, 2010** (Denver, CO) “*Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case Study in the Mare Tyrrenum Quadrangle on Mars*” BP Grudzinski*, W Luo, D Pederson
- Great Plains Rocky Mountain Association of American Geographers, 2010** (University of Kansas, Lawrence, KS). “*Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case Study in the Mare Tyrrenum Quadrangle on Mars*” BP Grudzinski*, W Luo, D Pederson
- Lunar and Planetary Science Conference, 2009** (Lunar and Planetary Institute, Woodlands, TX) “*Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case Study in the Mare Tyrrenum Quadrangle on Mars*” BP Grudzinski*, W Luo, D Pederson
- Lunar and Planetary Science Conference, 2009** (Lunar and Planetary Institute, Woodlands, TX) “*Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case study in the Oregon Cascades*” BP Grudzinski*, W Luo, D Pederson
- Illinois Geographical Society, 2009** (Northeastern Illinois University, Chicago, IL) “*Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case study in the Oregon Cascades*” BP Grudzinski*, W Luo, D Pederson

Geological Society of America, 2008 (Northern Illinois University, Rockford IL)
“Estimating Hydraulic Conductivity from Drainage Patterns Derived from DEM – A Case study in the Oregon Cascades” BP Grudzinski*, W Luo, D Pederson

Advising

Primary advisor, M.A student, Jeff Lazar, Department of Geography (Fall 2016-ongoing)

Primary advisor, M.S student, Rachel Spahr, Institute for the Environment and Sustainability (Fall 2016- ongoing)

Committee member, M.S student, Tanner Williamson, Department of Biology (Fall 2016-ongoing)

Primary Advisor, M.S student, Tyler Bowman, Institute for the Environment and Sustainability (Fall 2016-ongoing)

Committee member, M.S student, Terry Workman, Department of Geology (Fall 2015-ongoing)

Committee member, M.S. student, Kathleen Jordan, Institute for the Environment and Sustainability (Graduated (Winter 2017)

Committee member, M.S student, Deanna Fyffe, Institute for the Environment and Sustainability (Graduated –Fall 2017

Committee member, M.S student, Lemuel Del Valle, Institute for the Environment and Sustainability (Graduated –Summer 2016)

Teaching-Research Workshops and Seminars

- Earth Educators Rendezvous –Earth Educators Meeting, 2017 (Albuquerque, NM)
 - New Faculty Research Community, 2016 (Miami University)
 - Earth Educators Rendezvous –Earth Educators Meeting, 2016 (Madison, WI)
 - Early Career College and University Faculty Development Workshop, 2013 (Boulder, CO)
 - GTA Recognition of Achievement in Professional Development Teaching Seminar Series, 2013 (Kansas State University)
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Organizations

Association of American of Geographers
Society for Freshwater Science

Outreach and Service Experience

Miami University

Community Outreach –Environmental Restoration (Fall 2016)

Organized and participated in a wetland restoration on a local property that has a conservation easement. Several students from my Geo 121 course helped in the effort.

Miami University

Community Outreach –Environmental Restoration (Summer 2016)

Participated in a local environmental restoration effort (honeysuckle removal) on a farm in Oxford.

Miami University

Community Outreach –Environmental Restoration (Spring 2016)

Recruited students from my geography courses to participate in a honeysuckle removal at Ruder Preserve. The environmental restoration event included several geography students.

Miami University

Organized an undergraduate float trip on the Little Miami River (Fall 2016)

Canceled 2x due to storms

Miami University

Seminar Series Organizer (Fall 2016)

I organized the Geography Departments seminar series. It had six speakers, three of which I invited and hosted.

Miami University

Tenure Track Faculty Search Committee (Fall 2016)

I was a member of the search committee for a new tenure track position within the Department of Geography. We successful hired our 1st overall choice.

Miami University

Recruitment and Development Committee Chair (Fall 2016-ongoing)

Lead a group of faculty in developing and executing strategies for recruiting and retaining undergraduate students.

Miami University

Admission Preview Day Panelist (October 2015)

Answered questions about Miami University from prospective students and their parents.

Miami University

Recruitment Committee, Department of Geography (August 2015-Current)

Participate in various activity related to recruitment of undergraduate and graduate students.

Science Fare Judge

Wamego Regional Science Fair, Wamego, Kansas (March 2014)

Judged elementary and high school level science projects.

Kansas River Float Trip

Manhattan Kansas to St. George (March 2014)

Organized and led a float trip for undergraduate students over spring break.

Secession Chair

AAG West Lakes Regional Conference (October 2013)

Chaired the physical geography oral secession.

Konza LTER KPBS Visitors Day

Konza Prairie, Manhattan, KS (September 2012)

Described the role of bison and fire on grasslands to kids.

Konza Prairie LTER site maintenance

Konza Prairie, Manhattan, KS (Fall 2012-Present)

Volunteer (bison round ups, woody vegetation removal, and prairie burning).

Geography Day

Kansas State University, Manhattan, KS (July 2012)

Helped develop a presentation to spread geography awareness.

Mercy Regional Hospital
Manhattan, KS (Fall 2013)
Emergency room volunteer.

Languages

Polish: speak, read, and write fluently.

Spanish: speak, read, and write at an introductory level.