

Cassidy N. Jay
Geology Department
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EDUCATION

PhD, Geophysics, Purdue University, West Lafayette, IN August 2018
Earth, Atmospheric, and Planetary Sciences (EAPS) Department
NSF Graduate Research Fellow

BA, Geosciences, Hamilton College, Clinton, NY May 2011
Departmental Honors, Mathematics Minor, *magna cum laude*, Phi Beta Kappa
Geoscience coursework and field school at Otago University, Dunedin, New Zealand

PUBLICATIONS

Jay, C. N., L.M. Flesch, R.O. Bendick (*in press*), Kinematics and dynamics of the Pamir, Central Asia: Quantifying the roles of continental subduction in force balance, *J. Geophys. Res. Solid Earth*, doi: 10.1029/2018JB015615.

Jay, C. N., L. M. Flesch, and R. O. Bendick (2017), Kinematics and dynamics of the Pamir, Central Asia: Quantifying surface deformation and force balance in an intracontinental subduction zone, *J. Geophys. Res. Solid Earth*, 122, 4741–4762, doi:10.1002/2017JB014177.

Jay, C. N., L.M. Flesch, R.O. Bendick (*in preparation*), Kinematics and dynamics of the Main Ethiopian Rift.

CURRENT POSITION

Visiting Assistant Professor, Geology Department, Summer 2018 - present
Washington and Lee University

TEACHING AND MENTORING EXPERIENCE

Courses Taught

Physical Geology Lab (Fall 2015, 2 sections; Spring 2016, 2 sections)

Teaching Certificates

Graduate Teaching Certificate Awarded Spring 2017
Purdue University Center for Instructional Excellence

Training and Mentoring

Teaching Assistant Training Co-Facilitator, Purdue EAPS Dept. Fall 2016
Teaching Mentor, Purdue EAPS Dept. Spring 2016

PRESENTATIONS

Jay, C., Flesch, L.M., Bendick, R., and Keranen, K. 2015. Kinematics and Dynamics of the Main Ethiopian Rift. **Oral presentation**, Annual Meeting of the American Geophysical Union, San Francisco, CA. **Outstanding Student Paper Award**.

Jay, C., Flesch, L.M., and Bendick, R. 2014. Kinematics and Dynamics of the Pamir, Central Asia. **Oral presentation**, Purdue University Grad Expo, West Lafayette, IN.
Outstanding Presentation Award.

Jay, C., Flesch, L.M., and Bendick, R. 2014. Kinematics and Dynamics of the Pamir, Central Asia. **Oral presentation**, Annual Meeting of the American Geophysical Union, San Francisco, CA.

HONORS AND AWARDS (selected)

2014 – 2018	National Science Foundation Graduate Research Fellowship
2017-2018	Outstanding Graduate Student Award
2016 – 2017	Gerald H. Krockover Graduate Fellowship for Outreach
2015 – 2016	American Geophysical Union Outstanding Student Paper Award Purdue Teaching Academy Graduate Teaching Award Purdue EAPS Dept. Teaching Honor Roll (Fall & Spring)
2014 – 2015	Purdue Graduate Student Expo Outstanding Presentation Award
2013 – 2014	Purdue Doctoral Fellowship

RESEARCH EXPERIENCE

Research Fellow, Purdue EAPS Dept.	2013 – 2018
Numerically model deformation and force balance of continental lithosphere in the Pamir orogen, Central Asia and Main Ethiopian Rift. Collect geodetic GPS data.	
Research Assistant, Hamilton College	2008 – 2011
Investigated surface water-ground water interactions in alluvial aquifer, spatial and temporal variations of major ion chemistry in Oriskany Creek watershed	

PROFESSIONAL SERVICE

Language Editor, Open Geoscience (De Gruyter Open)	2015 – present
UNAVCO Education and Community Engagement Advisory Committee	2015

DEPARTMENTAL SERVICE

EAPS Department Women in Science Program Co-leader	2014 – 2016
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COMMUNITY OUTREACH

2017 – 2018	EAPS Dept. Passport Day at Imagination Station (Children's science museum)
2015 – 2016	EAPS Dept. outreach for College Buddies Program EAPS Dept. outreach table at Purdue Homecoming Purdue Space Day Earth Science table at Family STEM Night, Sunnyside Middle School
2013 – 2014	“Engineering for Space Exploration,” Innovation 2 Reality 6 th -8 th grade weekly enrichment program, Graduate Leadership Team “Liquid Gold: Engineering a Solution to Water Scarcity,” Innovation 2 Reality 6 th -8 th grade weekly enrichment program, Graduate Leadership Team

FIELD EXPERIENCE

GPS data collection, Adirondack Mountains, NY	August 2017
GPS data collection and permanent station servicing, Ethiopia	January 2015
Field school, Otago University, New Zealand	Spring 2010

SELECTED PREVIOUS POSITIONS

Geodynamics Intern, Chevron Corporation, Houston, TX	Summer 2015
Data Technician, UNAVCO, Boulder, CO	2011 – 2013

AFFILIATIONS

- American Geophysical Union
- Geological Society of America
- National Association of Geoscience Teachers
- Association for Women Geoscientists
- Earth Science Women's Network