

Robert J. Hickey

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Education

- Edinboro University of Pennsylvania. Geology. BS (honors), 1987
- Washington State University. Geology MS, 1990
- University of Idaho. Geography PhD, 1994

Appointments

- 2000-present *Professor*, Department of Geography. Central Washington University. Promotion to Professor in 2009, tenure in 2004, and promotion to Associate Professor in 2002.
- Fall 2011 *Visiting Professor*, Institute of Environmental Sciences and the Department of
March 2007 Cartography and Geoinformatics. University of Pecs, Hungary.
Fall 2005 (faculty exchange)
- 1997-2000 *Senior Lecturer in GIS*, School of Spatial Sciences, Curtin University of Technology.
Perth, Australia. Tenure and promotion from Lecturer in January, 1999.
- 1994-1996 *Assistant Professor*, Department of Geology (Geography Program). Manager, Geospatial
Analysis Lab. State University of West Georgia.

Selected Publications

- Hickey, R. 2020. Branching out as a mentor. *Science*. Volume 386, issue 6492, page 786.
- Hickey, R. 2019. Tidal inundation modeling within GIS. *Journal of Coastal Conservation*. 23(3), pp. 599-606.
- Hickey, R. 2010. Beyond Class Hours: the GIS Lab as a Center of Geographic Education. *International Journal of Applied Geospatial Research*. 1(3): 1-16.
- Wade, S. and R. Hickey. 2008. Mapping Migratory Wading Bird Feeding Habitats using Satellite Imagery and Field Data, Eighty-Mile Beach, Western Australia. *Journal of Coastal Research*. V. 24, no. 3, pp. 759-770.
- Van Remortel, R., R. Maichle, and R. Hickey. 2004. Computing the RUSLE LS Factor through Array-based Slope Length Processing of Digital Elevation Data Using a C++ Executable. *Computers and Geosciences*. V. 30, No. 9-10, pp. 1043-1053.
- Corner, R., R. Hickey, and S. Cook. 2002. Knowledge Based Soil Attribute Mapping in GIS: the Expecter Method. *Transactions in GIS*, v. 6, no. 4, pp. 383-402.
- Hickey, R. 2000. Slope Angle and Slope Length Solutions for GIS. *Cartography*. V. 29, no. 1, pp. 1-8.
- Dunn, M. and R. Hickey. 1998. The Effect of Slope Algorithms on Slope Estimates within a GIS. *Cartography*. V. 27, no. 1, pp. 9 – 15.

Hickey, R. and P. Jankowski. 1997. GIS and Environmental Decision-making to aid Smelter Reclamation Planning. *Environment and Planning A*, v. 29, pp. 5 - 19.

Hickey, R. 1992. The Buckhorn Mountain (Crown Jewel) Gold Skarn Deposit, Okanogan County, Washington. *Economic Geology*, v. 87, pp. 125-141.

Research Leadership

- 1997-pres. NW Australian mudflats, Benthic invertebrate mapping project. Senior Scientist. As a group, over \$1,000,000 in funding. <https://teampiersma.org/home/east-asian-australasian-flyway/benthic-invertebrate-mapping/>
- 2017 Contract with the City of Cle Elum, Comprehensive Plan updates. PI with Dr. Don Chance. \$19,498
- 2017 Contract with the City of East Wenatchee, stormwater drainage mgt. PI. \$6,854.
- 2016 One quarter of research leave plus \$2,400 for *Benthic Fauna Survey of Eighty Mile Beach, Western Australia*. PI.
- 2013 Contract with the Friends of the Kittitas County Fairground for cartographic work at the Kittitas County Event Center. PI. \$5184.
- 2011 Science Honors application with Joe Keeney: *Holocene House Hunting: Using Season-Sensitive Multi-Spectral Imagery for Locating Prehistoric Human Dwellings*. Co-PI. \$5000.

Leadership and Professionalism: Synergistic Activities

- Member, Board of Directors: Friends of the CWU Brooks Library. 2017-pres. Vice-chair, 2019-2020; Chair, 2020-pres.
- Editor (GIS/Remote sensing specialty) for the Journal of Spatial Sciences. <https://www.tandfonline.com/loi/tjss20>. 2019-pres.
- Fulbright evaluator, committee for study in Australia (2008, 2009, 2010) and UK (2019, 2020).
- Service to the American Association for the Advancement of Science (AAAS):
 - Member at large, Pacific Division Council (2014-2020): two elected terms.
 - Student poster judge: 2018, 2017, 2016, 2015, 2014, & 2013 Annual and 2019, 2018, 2017, 2015, & 2013 Pacific Division meetings).
 - Section E (Geology/Geography) - annual conference symposium reviewer (2019, 2018, 2017, 2016, 2015, 2014, & 2013).
 - Symposium proposed, accepted and moderated for 2018 national meeting: *The View from Above: What We See with Drones*.
 - Symposium organized (with Eric Graham, Biology) for the 2019 Pacific Division meeting: *Puttin' the public to work – Community Science around the world!*
 - On call scientist, have worked with IIE's Scholar Rescue Fund (IIE-SRF).
- Founder and Director of the GIS Certificate (2001-2013, 2015-2018) and Science Dissemination Certificate (2020-pres,) programs. Central Washington University.

- Member of the Kittitas County Planning Commission, Ellensburg, WA. December 2012-present. Vice-chair, 2016. Chair, 2017-2019.
- Member, University of Idaho Alumni Association Board of Directors. 2014-2016.
- President, United Faculty of Central (2007-2013). Oversaw a ~200 member voluntary organization representing ~630 faculty on all issues related to wages, salaries, and terms and conditions of employment.
- Committee member, Western Australia Chapter, Mapping Sciences Institute of Australia (1999-2000).
- Secretary/Treasurer, Australian Surveying and Mapping Lecturers Association (1997-1999).
- Councilor, Western Australia Chapter, Australian Urban and Regional Information Systems Association (1997).

Commitment to Diversity and Inclusiveness

Diversity and inclusion are important issues, both at Central and nationally. Personally, I have always been an advocate for workforce/student diversity and have been directly involved in efforts to retain, mentor, and graduate underrepresented students through my work with Brother 2 Brother (B2B). B2B is a male success initiative which works primarily with students of color to help them succeed at University and beyond. They are affiliated with the national organization: Student African American Brotherhood.

Mentoring

- I have supervised 4 PhD, 33 MS, and 8 postgraduate student research projects as chair or committee member.
- At the undergraduate level, I have supervised five honors projects and over 50 individual research projects.
- These projects resulted in multiple conference presentations and publications by students at all levels, including a strong presence at the annual Central Washington University Symposium on University Research and Creative Expression.
- Many of these projects were in collaboration with faculty across campus, outside government agencies, and/or private industry.

Selected Awards

- 2020 Phi Kappa Phi, CWU Chapter, *Scholar of the Year*. Awarded for a noted scholarly record at CWU, visibility in fostering interest in his field, and devotion to learning which places an emphasis on intellectual breadth.
- 2017 The Tom-Ogg NRHH (National Residence Hall Honorary) Chapter *Honoring Our Professors' Excellence Award (H.O.P.E)* award which recognizes professors who have a strong positive impact on the students and go above and beyond the usual classroom duties. The awardees are nominated by students and then selected by a committee of NRHH members.
- 2013 *Most Inspirational Faculty Award* (2012/2013). Given to one faculty member per year for individuals in honor of their outstanding leadership, dedication, and service to the CWU community. I was nominated by a faculty member and selected by a committee of staff and students.

2013 United Faculty of Washington State *You Wear Spurs* award. This award is given, on average, once every two years to a faculty member from a WA unionized campus for exceptional service to their union and the faculty they represent.

1997, 98, 99 Awarded the *Dean's Medallion for Excellence in Teaching* in 1999 and 1998; finalist in 1997. Faculty of Engineering, Curtin University of Technology.

1997 "Best Presented Paper Award." Australasian Urban and Regional Information Systems Association (AURISA) '97 conference. *Methods for Slope Angle and Slope Length Calculations Within a GIS*.

Major Career Contributions and Legacy

My research focus has always been on working with undergraduate students. This rarely results in publications or any sort of national recognition. That said, the students I've worked with have gone on to successful careers (and grad school) in their fields. That probably ranks as my #1 overall contribution/legacy.

Next on the list would be working as a senior member of a research group working on the mudflats of NW Australia: <https://teampiersma.org/home/east-asian-australasian-flyway/benthic-invertebrate-mapping/> Our group is significantly responsible for two areas, Roebuck Bay and Eighty Mile Beach, becoming Australian Marine Parks.

Third on this list would be what could be considered my primary research focus – slope angle and slope length calculations within GIS. Admittedly, it's a bit obscure, but it has generated an international reputation within the erosion modeling community.

Note: For more information, please see:

- My personal [home page](#),
- My full academic [curriculum vitae](#) (28 pages, only read if you need sleep).
- My much shorter (3 page) [non-profit oriented resume](#).
- My [researchgate profile](#) where you can find copies of all my publications
- [LinkedIn](#).