

Robert Hickey

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Skilled writer and speaker with 20+ years of expertise in Geographic Information Systems (GIS) (think computer mapping on steroids), satellite remote sensing, environmental science/modeling, science communication, and higher education seeks a part time, remote position which leverages these skills.

Professional History

- 2022-present: *Executive Director*, American Association for the Advancement of Science – Pacific Division (AAAS-PD).
- 2000-present: *Professor*, Department of Geography, Central Washington University (CWU). Promotion to Professor in 2009 and Associate Professor in 2002.
- 1990-present: *Consultant*, Various organizations regarding GIS, erosion, and geology.
- Fall 2011, March 2007, and Fall 2005: *Visiting Professor*, Institute of Environmental Sciences and the Department of Cartography and Geoinformatics. University of Pecs, Hungary.
- 1997-2000: *Senior Lecturer in GIS*, School of Spatial Sciences, Curtin University of Technology. Perth, Australia. Tenure and promotion from Lecturer effective January 1999.
- 1994-1996: *Assistant Professor*, Department of Geology (Geography Program). Manager, Geospatial Analysis Lab. University of West Georgia.

Leadership/Management Experience

- *Executive Director, AAAS-PD* (2022-pres.): Primary duties include organizing and advertising an annual conference, maintaining all finances, coordinating with AAAS-National, maintaining the website, and managing Officers, Executive Committee, and Council Members.
- *President, United Faculty of Central* (2007 - 2013): I represented the ~630 faculty in all matters pertaining to wages, salaries, and terms and conditions of employment and oversaw the association officers, executive board (10 faculty), and 30 stewards.
- *Strategic Planning* (2010/11): I was a member of the CWU Strategic Planning Task Force which reviewed and significantly updated the University's Mission, Vision, and Strategic Plan.
- *Budget Experience at Central Washington University*: In addition to directly managing the United Faculty of Central budget, my role required monitoring the campus budget, state allocations, and legislative bills. Prior to this, I served on the University Budget Committee.
- *Program Development*: I have been integral in developing and growing GIS curricula at all the universities where I've been employed. The highlights at CWU are a BS in Geography with a GIScience track and our GIS Certificate program. In 2020, I successfully created an interdisciplinary Science Dissemination Certificate to provide additional credentials for our science students. I also work with multidisciplinary programs, including Environmental Studies, Science Talent Expansion Project (STEP), Douglas Honors College, and the graduate program in Cultural and Environmental Resource Management at CWU. At Curtin University, I helped develop a double major in GIS and Geology.
- *Personnel*: I've been involved in personnel decisions and discipline (up to and including termination) at a number of levels. I served on and chaired search committees, departmental personnel committees, and our college personnel committee. As UFC president, I was involved in disputed faculty tenure, promotion, and discipline cases from across campus.

- *Information Technology (IT) Oversight:* At Curtin University, I was elected Chairman of the Engineering (and Geology) Computing Facilities Committee. In this role, I oversaw a \$300,000 budget with four employees and acted as a liaison between the IT group, the faculty, four engineering schools, and the dean of engineering. I continued this work at Central Washington University, chairing the University IT Advisory Committee.
- *Recruitment/Alumni Relations (2012-2017, 2020):* At CWU, I worked to assist the College of the Sciences, the campus recruitment office, and the alumni office by creating maps showing the distribution of incoming students, current students, and alumni.
- *Director, GIS Certificate program (2001-2013, 2015-2018):* I created, managed, recruited students for, and taught many of the classes in this program.
- *Coordinator, Science Dissemination Certificate (2020-present).* I created this certificate to encourage our science students to include more communication skills in their CWU experience. I'm currently the program coordinator.
- *Researcher:* I've published research in a number of different areas (researchgate link below). A highlight is that I'm a member of a [research team](#) that was significantly responsible for the creation of two Western Australia Marine Parks at Roebuck Bay and Eighty Mile Beach.
- *Active in my discipline:* Active member in AAAS, Sigma Xi (science honors society), Washington Geographic Information Systems Association, Phi Kappa Phi (general honors society), and Sigma Gamma Epsilon (earth science honors society).

Skills:

- *Excellent speaker:* I've conducted over 100 formal presentations at various venues and uncounted class lectures in GIS, remote sensing, cartography, physical geography, environmental science, and research methods. I've received awards for both teaching and research presentations.
- *Skilled and published writer:* My students, colleagues, and I have published 27 peer-reviewed articles and many more non-peer reviewed articles, reports, etc.
- *Editor:* In addition to thousands of student papers, I've helped a number of colleagues with their publications and worked as a journal editor.
- *Analysis:* I've used GIS, remote sensing, field, laboratory, and statistical tools to solve problems as widely varied as understanding erosion, food sources of migratory birds, the genesis of ore deposits, and the habitats of Australian possums.
- *Highly organized:* I always complete work on-time and to specifications.
- *Established leader:* I've worked as an Executive Director, 3-term elected faculty union president, contract negotiation lead, committee chair, board chair, and public commission chair.
- *Successful grant/contract writer:* I've worked on successful grants worth over \$1.3 million as author, co-author, or senior investigator.
- *Grant reviewer/evaluator:* I've served as a Fulbright grant reviewer and worked with colleagues.
- *Familiar with contract negotiations:* I've been a member of five faculty contract negotiation teams and chair of one.
- *Accustomed to working with under-represented groups:* In addition to working with many different students, I am the faculty advisor to Brother 2 Brother, a group dedicated to helping mostly men of color succeed at university and beyond.
- *Research supervision:* I've supervised 4 PhD, 30 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.

Selected Professional/Public Service

- Member, Board of Directors: Friends of the CWU Brooks Library. 2017-2023. Vice-chair, 2019-2020; Chair, 2020-2022; Treasurer, 2022-2023.
- Member, Kittitas County Planning Commission, Ellensburg, WA. 2012-2019. Vice-chair, 2016. Chair, 2017-2019.
- Member, University of Idaho Alumni Association Board of Directors. 2014-2016.
- Editor, (GIS/Remote sensing specialty) [Journal of Spatial Sciences](#). 2019-pres.
- Fulbright grant evaluator, study in Australia (2008, 2009, 2010, 2021) and UK (2019, 2020).
- Service to the American Association for the Advancement of Science (AAAS):
 - Executive Director, AAAS-PD (2022-pres.)
 - National Section E Steering Committee (2023-pres.)
 - Member at large, Pacific Division Council (2014-2020), two elected terms.
 - Section E (Geol/Geog) - annual conference symposium reviewer (2013-2021).
 - On call scientist, worked with IIE's Scholar Rescue Fund (IIE-SRF).

Selected Honors and Awards

- *Scholar of the Year* (2020), Phi Kappa Phi, CWU Chapter. Awarded for a noted scholarly record at CWU, visibility in fostering interest in his field, and devotion to learning.
- *Most Inspirational Faculty Award* (2012/2013). Awarded to one faculty member per year in honor of their outstanding leadership, dedication, and service to the CWU community.
- Two *MSIA Excellence in Mapping Sciences Awards* (2000): Awarded for presentations at the Mapping Sciences Institute of Australia annual conference. First authors were graduate students.
- *Dean's Medallion for Excellence in Teaching* (1998 and 1999). Faculty of Engineering, Curtin University of Technology.
- *Best Presented Paper Award* (1997). Australasian Urban and Regional Information Systems Association annual conference for “Methods for Slope Angle and Slope Length Calculations Within a GIS.”

Education

- PhD, Department of Geography, University of Idaho. 1994.
 - Focus on spatial decision support systems, GIS, and erosion modeling.
- MS, Department of Geology, Washington State University. 1990.
 - Focus on economic geology and gold skarns.
- BS (Honors), Department of Geology, Edinboro University of Pennsylvania. 1987.

Links to more information

- Personal home page: <http://www.onlinegeographer.com> .
- [Linkedin](#)
- [Researchgate](#) – which includes links to all my publications.
- [Kraken Woodworking](#)