Curriculum Vitae

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EDUCATION

2013 Ph.D. Urban Design and Planning (Interdisciplinary), University of Washington

-Dissertation Research: Urban Intensification in Seattle: A Data System, Policy Evaluation and Market Analysis

2004 M.S. Urban Planning, University of Arizona

-Thesis: A Cost/Benefit Analysis of Tucson's Historic Preservation Tax Credit

2002 B.S. Geography, University of Wisconsin-Stevens Point

-Concentration: Urban Planning and Land Use

-Minor: Geographic Information Systems (GIS)

EMPLOYMENT

Industry Employment

- 2017 18 Principal Data Scientist, Greenfield Advisors
- 2014 15 Data Scientist (Consultant), Zillow
- 2005 14 Senior Analyst, Greenfield Advisors

Academic Employment

- 2015 17 Lecturer, Department of Property, University of Melbourne
- **2013 14 Post-Doctoral Research Associate**, Runstad Center for Real Estate Studies, University of Washington

PUBLICATIONS, PRESENTATIONS, and RESEARCH

Books

2017 Real Estate Analysis in the Information Age. *with K. Winson-Geideman, C. Lipscomb & N. Evangelopoulos.* Routledge, ISBN-13: 9781138232907.

Peer-Reviewed Publications

- 2018 Estiri, H. and A. Krause. A Cohort Location Model of Household Sorting in US Metropolitan Regions. *Urban Studies*, 55(1), 71-90. Access via DOI.
- 2018 Lipscomb, C., Youtie, J., Shapiro, P., Arora, S. & Krause, A. Evaluating the Impact of Manufacturing Extension Services on Establishment Performance. *Economic Development Quarterly*, 32(1), 29-43. .Access via DOI
- Winson-Geideman, K., A. Krause, G. Warren-Myers, and H. Wu. Non-spatial Contagion in Real Estate Markets: The Case of Brookland Greens. *Journal of Sustainable Real Estate*, 9(1), 22-45, Access via DOI.
- 2017 Bitter, C. and A. Krause. The Influence of Urban Design Packages on Home Values. *International Journal of Housing Market Analysis*, 10(2), 184-203. Access via DOI.
- 2016 Krause, A. and C. Lipscomb. The Data Preparation Process in Real Estate: Guidance and Review, *Journal of Real Estate Practice and Education*, 19(1), 15-42. Access via DOI.
- 2016 Krause, A. Reproducible Research in Real Estate: A Review and an Example, *Journal of Real Estate Practice and Education*, 19(1), 69-85. Access via DOI.
- Sim, E., A. Krause, and K. Winson-Geideman. The Impact of Transit Oriented Development (TOD) on Residential Property Prices: The Case of Box Hill, Melbourne. *Pacific Rim Property Research Journal*, 21(3), 199-214. Access via DOI.
- Krause, A. Piece-by-Piece: Low-rise Redevelopment in Seattle, *Journal of Property Research*, 32(3), 258-278. Access via DOI.
- Estiri, H, A. Krause & M. Heris. "Phasic" metropolitan settlers: a phase-based model for the distribution of households in US metropolitan regions, *Urban Geography*, 36(5), 777-794. Access via DOI.
- Krause, A. & C. Bitter. Spatial Econometrics, Land Values and Sustainability: Trends in Real Estate Valuation, *Cities, Special Issue: Current Research on Cities*, 29(S1), S19-S25. Access via DOI.
- Krause, A., R. Throupe, J. Kilpatrick, & W. Spiess. Contaminated Properties, Trespass, and Underground Rents, *Journal of Property Investment & Finance* 30(3), 304-320. Access via DOI.
- Krause, A. & M. Kummerow. An Iterative Approach to Minimizing Valuation Errors using an Automated Comparable Sales Model, *Journal of Property Tax Assessment & Administration* 8(2), 39-52.

2007 Kilpatrick, J., J. Carruthers, R. Throupe & A. Krause. The Impact of Transit Corridors on Residential Property Values, *Journal of Real Estate Literature* 29(3), 303-320. Access via DOI

Academic Conference Publications (Peer Reviewed)

2016 Winson-Geideman, K. & A. Krause. "Transformations in Real Estate Research: The Big Data Revolution" *Pacific Rim Real Estate Society Annual Conference*. Proceedings Link

Industry Publications

2016 Krause, A. Winson-Geideman, K. & Warren-Myers, G. Does 'Big Data' offer big potential to the property industry? *Australia and New Zealand Property Journal*, July, 358-363.

Patents

2017 Krause, A. Lipscomb, C. A. & Kilpatrick, J. A. *Automated-valuation-model training-data optimization systems and methods*. U.S. Patent 9,582,819, filed September 26, 2013, and issued February 28, 2017.

Academic Conference Presentations

- "Should I Airbnb My Property?", Real Estate Research Institute Annual Conference, Chicago, IL. Co-Authored with Gideon Aschwanden.
- 2017 "House Price Indexes for Submarkets: A Blending Approach", American Real Estate Society Annual Meeting, San Diego, CA.
- 2017 "Big Data Analytics", Panel Member, American Real Estate Society Annual Meeting, San Diego, CA.
- 2016 "Deriving Rent-to-Price Ratios: A Comparison of Methods", American Real Estate Society Annual Meeting, Denver, CO. Co-Authored with Gideon Aschwanden
- "Property-Level Real Estate Data: Processing Techniques and Documentation Review", Pacific Rim Real Estate Society Annual Meeting, Sunshine Coast, QLD. Co-Authored with Clifford A. Lipscomb
- "Piece by Piece: A Parcel-Level Statistical Analysis of Medium Density Redevelopment in Seattle", Western Regional Science Association Annual Meeting, San Diego, CA.
- "Investigating the 'Re-urbanism Hypothesis' through an analysis of land market trends.", Western Regional Science Association Annual Meeting, Santa Barbara, CA.

2012 "Expanding GWR: Exploring an N-dimensionally locally weighted regression technique for home price estimation", Western Regional Science Association Annual Meeting, Kauai, Hawaii.

- 2011 "N-dimensional locally weighted regression for house price prediction", American Real Estate Society Annual Meeting, Seattle, Washington.
- "An Iterative Approach to Minimizing Valuation Errors using an Automated Comparable Sales Model", American Real Estate Society Annual Meeting, Monterrey, CA. Co-Authored with Max Kummerow.
- 2007 "Valuation of Underground Storage and Rents", American Real Estate Society Annual Meeting, San Francisco, CA. Co-Authored with Throupe, R., Kilpatrick, J., & Spiess, W.

Industry Conference Presentations

2017 "Mass Appraisal and Big Data (Thinking):Process over Petabytes", International Property Tax Institute (IPTI) Annual Caribbean Conference, Trinidad and Tobago.

Book Chapters

"An Analysis of Household Location Choice in Major U.S. Metropolitan Areas using R", in *The Practice of Reproducible Research, eds. Kitzes, J., Turek, D. & Deniz, F.* University of California Press. Co-Authored with Estiri, H. ISBN: 9780520294752 www.practicereproducibleresearch.org.

Grant Funded Research

- 2016-7 Krause, A and Aschwanden, G. Should I AirBNB my property? Funded by the Real Estate Research Institute, Chicago. \$15,000
- Youtie, J, Lipscomb, C, Krause, A and Arora, S. Evaluating the Long-term Effect of NIST MEP Services on Establishment Performance. Funded by the National Institute of Standards and Technology.
- Crellin, G, Krause, A and O'Connor, S. Role of Housing and other Real Estate in Wealth Accumulation by Asian Immigrants to the United States. Funded by the Asian Real Estate Association of America (AREAA).
- Moudon, A, Hallenbeck, M, Sheikh, A, Krause, A, & Stewart, O. Land Development Risks along State Transportation Corridors. Prepared for the State of Washington, Department of Transportation. Report WA-RD 805.1.

Selected Working Papers

"Explaining Differences in Rent-Price Ratio Estimates: A Comparison of Three Methods" with G. Aschwanden.

- 2017 "Should I Airbnb My Property?" with G. Aschwanden.
- 2017 "House Price Indexes for Submarkets: A Blending Approach"

Published Book Reviews

- Housing Markets and the Global Financial Crisis: The Uneven Impact on Households. Edited by Ray Forrest and Ngai-Ming Yip. *Journal of Regional Science*, 2013, 53(3), 547-548.
- Systems Thinking and Decision Making in Urban and Environmental Planning. by Anastassios Perdicoulis, *Review of Regional Studies*, 2013, 42(2), 179-180.
- 2006 Employment and Regional Development Policy: Market Efficiency versus Policy Intervention Edited by Helmut Karl and Phillipe Rollet, *Papers in Regional Science*, 2006, 85(1), 163-165.
- The Real and Virtual Worlds of Spatial Planning. *Papers in Regional Science*, 2005, 84(1), 139-140.

ACADEMIC AWARDS and SERVICE

Academic Awards

- 2017 Winner, Best Journal Paper, Pacific Rim Real Estate Society Annual Meeting (co-Authored with Eileen Sim and Kimberly Winson-Geideman).
- 2016 Winner, Best Refereed Paper, Pacific Rim Real Estate Society Annual Meeting (co-Authored with Clifford A. Lipscomb).
- 2015 Winner, Best Paper in Real Estate Education, American Real Estate Society Annual Meeting (co-Authored with Clifford A. Lipscomb).
- 2013 Recipient, Lincoln Institute of Land Policy Doctoral Fellowship.
- 2013 Winner, Emerald Literati Highly Commended Author Award, 2013 with Co-Authors Throupe, Kilpatrick and Spiess (2012).
- 2013 Finalist, Western Regional Science Association Tiebout Prize.
- Recipient, University of Washington, Urban Design and Planning PhD Student Award.
- 2013 Recipient, American Real Estate Society Doctoral Student Travel Fund.
- 2009 Best Paper by a Practicing Professional, American Real Estate Society Annual Meeting (co-Authored with M. Kummerow).
- 2001 Academy of Letters and Science, Distinguished Student Achievement Award, University of Wisconsin Stevens Point.

Academic Service

2016-7 Member, Human Ethics Advisory Group (HEAG). Faculty of Architecture, Building and Planning

Referee: Urban Studies; Pacific Rim Property Research Journal; Geographical Review; Building, Research and Information; Journal of Real Estate Practice and Education; Land Use Policy; Applied GIS; Urban Studies, Applied Spatial Analysis and Policy
Helper: Research Bazaar Melbourne, R Stream
Referee: Australasian Journal of Regional Studies
Journal of Regional Science Book Reviewer
Review of Regional Science Book Reviewer
Papers in Regional Science Book Reviewer

PhD Supervision

Russo, Patrizia. University of Melbourne. Co-Supervisor. Expected completion 2017. Rao, Fujie. University of Melbourne. Committee Member. Expected completion 2018.

TEACHING

University of Melbourne

2015-7	Property Research and Analysis
2015-6	Property Thesis/Professional Project
2015-6	International Property Development
2016	Introduction to R (Assistant)
2017	Property Data and Tools (Under Development)

University of Washington

2013 Microsoft Excel Bootcamp (MSRE Students) 2012 Real Estate Finance (Assistant to J. Delisle)

Last updated: March 16, 2018 http://www.andykrause.com