

# Suzanne A. Pierce

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## Assistant Professor of Research

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### Professional Preparation

Institution	Major/Area	Degree	Year
University of Arkansas, Fayetteville	Geology	B.S.	1993
The University of Texas at Austin	Geology, Integrated Watershed Sciences	Ph.D.	2006

### Appointments, Jackson School of Geosciences, The University of Texas at Austin

2013 – Present, Assistant Professor of Research, Environmental Sciences Institute

2011 – Present, Lecturer, Department of Geosciences

2011 – Present, Assistant Director, Digital Media Collaboratory, Center for Agile Technology

2009 – 2013, Research Assistant Professor, Center for Int'l Energy & Environmental Policy

### Products From Research

1. Passarello, MC, **Pierce SA**, Sharp, JM, 2014, *Uncertainty and urban water recharge for managing groundwater availability using decision support*, Water Science & Technology Journal, in press, In Press 28 October 2014, doi:10.2166/wst.2014.437.
2. **Pierce, SA**, Sharp, JM, Eaton, DJ, *An Overview of Groundwater Decision Support Systems, Integrated Groundwater Management*, Edited Book Chapter, (accepted in press).
3. **Pierce, SA**, Figueroa B, E, 2014, *Essential elements for participatory modelling: Using deliberative engagement and gesture-enabled interfaces to implement energy-mineral-water solutions in the Atacama Desert, Chile*, Ames, D.P., Quinn, N.W.T., Rizzoli, A.E. (Eds.), 2014. Proceedings of the 7th International Congress on Environmental Modelling and Software, June 15-19, San Diego, California, USA. ISBN: 978-88-9035-744-2.
4. **Pierce, SA**, Sharp, JM, Guillaume, JHA, Mace, RE, Eaton, DJ, 2013, *Aquifer-yield Continuum as a guide for science-based groundwater management*, Journal of Hydrogeology, 21(2), pp 331-340. DOI 10.1007/s10040-012-0910-y. **Editor's Choice Article Selection for 2013.** <http://link.springer.com/article/10.1007/s10040-012-0910-y>
5. Passarello, M, **Pierce, SA**, Sharp, JM, 2012, *Estimating Urban-Induced Artificial Recharge A Case Study for Austin, Texas*, Environmental and Engineering Geoscience, 18 (1), 25-36.

### Additional Significant Products

1. Hamilton, SH, Guillaume, JHA, El Saweh, S, **Pierce, SA**, Jakeman, AJ, (forthcoming), *Integrated assessment and modelling: overview and synthesis of salient dimensions*, Environmental Modelling and Software, accepted 11/15/2014.
2. Bennett, ND, Croke, BFW, Guariso, G, Guillaume, JHA, Hamilton, SH, Jakeman, AJ, Marsili-Libelli, S, Newham, LTH, Norton, JP, Perrin, C, **Pierce, SA**, Robson, B, Seppelt, R., Voinov, AA, Fath, BD, 2013, *Characterising performance of environmental models*, Environmental Modelling and Software, vol. 40, p. 1-20.
3. Malin, RA, Markovich, K, Noll, D, Uddenberg, M, **Pierce, SA**, 2012, *Group Decision Support Tools for Interactive Site Assessment: A case study from geothermal exploration on*

*the Snake River Plain, Idaho, USA*, Software Application, Department of Energy EERE National Geothermal Student Competition, download: <http://github.com/djnoll/heatseeker/>.

4. **Pierce, SA**, Malin, RA, Figueroa, EB, 2012, *Sustained dialogue for geothermal energy resources in Chile*, Journal of Contemporary Water Research & Education (JCWRE), Issue 149, p. 76-86.
5. **Molina, J-L**, Maros-Rosillo, S, Martin-Montanes, C, **Pierce, SA**, 2012, *The Social Sustainable Aquifer Yield: An indicator for the analysis and assessment of the integrated aquifers management*, Water Resources Management, 26(10), pp. 2951-2971.

### Synergistic Activities

1. **Co-Founder and now Advisor to RE:3D** – Technology Transfer (2013), Social entrepreneurial venture in large-format 3D printing International Start-Up invited to Austin Technology Incubator, Awarded ~\$45,000 for Start-Up Chile incubator from the Chilean government. \$250,000 raised via Kickstarter, and Global sales to date exceeding \$1,000,000.
2. **Board Member**, International Environmental Modelling and Simulation Software (iEMSS) and the International Association of Hydrogeology (IAH), US Chapter, 2012-2016, and Member of the Commission on Communicating with Policy Makers, 2012-present).
3. **Faculty Mentor** – Integrative Computational Education and Research Traineeship, NSF REU program resulted in **student Co-Authored Poster at XSEDE14**, Brooks, D, Eatmon, A, Pierce SA, *Visualizing & Modeling Multi-Attributed Data to Highlight Scientific Uncertainty in Common Pool Resource Problems Using Groundwater Case Study Data*. Research Experience for Undergraduates at The University of Texas at Austin, summer 2014.
4. **Invited Participant to NSF Workshops** for Cyberlearning (upcoming 2015 – invited to lead a session on next generation technologies for Makers) DiBBs Brown Dog (2014), Early Career EarthCube (2012), Geosciences Faculty (2010), and Contributor to the Earth Literacy Workshop (2008)
5. **Fulbright Nexus Scholar**, 2011/12: Inaugural Nexus Program for Sustainable Energy, Innovation, and Technology, ENCOMPASS Cyberinfrastructure Project, Chile (\$30,000)

### Collaborators & Other Affiliations/Certifications

#### Other Affiliations:

2010 - Certificate in Dialog, Deliberation, and Public Engagement, Fielding University

2010 – Present, International Research Fellow, Program 5, Decision Support Systems Initiative, National Centre for Groundwater Research and Training, Australian National University

Collaborators and Co-Editors: Jakeman, A.J. (Australian National Univ.), Figueroa, E. (Univ. de Chile), Croke, B.(Australian National Univ.), Bembow, M.S. (Univ. Catolica del Norte, Chile), Scott, C.A. (Univ. of Arizona), Clark, S. (Univ. of Wisconsin-Eau Claire), Molina, J.L. (Salamanca Univ., Spain), S. El Sawah (Australian National Univ.), C. Simmons (Adelaide Univ.), R. Teasley (Univ. of Wisconsin)

Graduate Students Advised and Post-docs/Research Associates Sponsored: Research Associates – Francesca Samsel, MFA (14-..), Samantha Snabes, MBA (12/13), Dr. Roy Rich (Research Associate, 09-12), Masters Students – C. Dawes, H. Zellner, D. Noll, R. Malin, E. Stautberg, M. Passarello, J. Wehner

#### Thesis Advisor and Postgraduate-Scholar Advisors:

John M. Sharp, Jr. , Ph.D. (advisor), Jackson School of Geosciences and David J. Eaton, Ph.D. (co-advisor), Lyndon B. Johnson School of Public Affairs