

Dr. Laura Hosman

School for the Future of Innovation in Society
& The Polytechnic School
Arizona State University
Tempe, AZ 85287

cell: 213-550-7110
work: 480-727-6592
laura.hosman@asu.edu
<http://solarspell.org/>

ACADEMIC POSITIONS

- Arizona State University**, Associate Professor, joint appointment in the School for the Future of Innovation in Society and The Polytechnic School 2018-present
Assistant Professor, joint appointment in the School for the Future of Innovation in Society and The Polytechnic School 2016-2018
Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability 2017-present
Honors Faculty, Barrett the Honors College 2017-present
- California Polytechnic State University**, Assistant Professor of Ethics, Public Policy, Science & Technology (EPPST). Joint appointment in the Science, Technology, and Society (STS) Program and the Department of Political Science 2014-2016
- Illinois Institute of Technology**, Assistant Professor, Political Science 2009-2014
Associate Chair, Department of Social Sciences 2011-2012
- University of California, Berkeley**, Ciriacy-Wantrup Postdoctoral Fellow in Natural Resource Economics and Political Economy, Environmental Science, Policy & Management, Department of Natural Resources 2007-2009
- University of Southern California**, Postdoctoral Research Fellow, Institute for Communication Technology Management, Marshall School of Business 2006-2007
- University of Southern California**, Lecturer, School of Public Policy and Development 2007

EDUCATION

- University of Southern California**, Ph.D., *with distinction*, Political Economy & Public Policy 2006
- University of Southern California**, M.A., Economics 2004
- University of Amsterdam**, M.A., *cum laude*, International Relations, Fulbright Scholar 2000
- Wheaton College**, B.A., *magna cum laude*, Political Science 1997

AWARDS & FELLOWSHIPS

- MIT-Solve TPrize Challenge Finalist (top 10 out of over 300 applications) 2020
- PLuS Alliance Fellow 2020-2022
- Tech4Islands Awards Finalist (top 6 out of 66 applications) FrenchTech Digital Festival Tahiti 2019
- Global Humanitarian Award, IEEE Phoenix Section 2019

PLuS Alliance Prize for Education Innovation	2017
Distinguished Alumni Award, Fridley High School, Fridley MN	2016
Best Paper Award: Meheroo Jussawalla Research Paper Prize, Pacific Telecommunications Council (PTC) 36 th Annual Conference	2014
Dean's Excellence Award for Teaching, College of Science and Letters (IIT)	2011
Outstanding Faculty Award, Interprofessionalization (IPRO) Program (IIT)	2011
Society for New Communications Research (SNCR) Excellence Award, Collaboration and Co-Creation, Academic Division, for Solar Powering Project in Haiti	2010
Tyler Environmental Prize Final Year Dissertation Fellowship (USC)	2005-2006
Urban and Global Interdisciplinary Ph.D. Dissertation Fellowship (USC)	2005
CIBEAR International Business Issues Dissertation Award (USC)	2004
Haynes Foundation Dissertation Fellowship (USC)	2003-2004
Urban Studies Strategic Theme Summer Fellowship (USC)	2003
Haynes Foundation Intermediate Graduate Fellowship (USC)	2002-2003
Venice International University Tuition Scholarship (VIU, Venice, Italy)	2001
Fulbright Scholarship for graduate studies in The Netherlands	1999-2000

PEER REVIEWED JOURNAL ARTICLES & CHAPTERS

- Hosman, L., Gomez Zermeno, M. G., & Aleman de la Garza, L. (2020). SolarSPELL Assessment: Impact of a Solar-Powered Digital Library as a Teaching-Learning Resource on Climate Change. *Sustainability*, 12, 6636, doi:10.3390/su12166636 <https://www.mdpi.com/2071-1050/12/16/6636>
- Hosman, L., Walsh, C., Perez Comisso, M., & Sidman, J. (2020). Building online skills in offline realities: The SolarSPELL initiative. *First Monday*, Vol. 25 No. 7, July. <https://firstmonday.org/ojs/index.php/fm/article/download/10839/9559>, doi: <http://dx.doi.org/10.5210/fm.v25i7.10839>
- Hosman, L. and Pérez Comisso, M.A. (2020). How do we understand “meaningful use” of the internet? Of divides, skills and socio-technical awareness. *Journal of Information, Communication, and Ethics in Society*, forthcoming, <https://doi.org/10.1108/JICES-05-2020-0055>
- Hosman, L., & Jacobs, G. (2018). From Active Learning to Taking Action: Incorporating Political Context into Project-Based, Interdisciplinary, International Service Learning Courses. *Journal of Political Science Education*, 14(4) 473-490.
- Hosman, L. (2018). Impatience as a Virtue: Addressing Persistent ICT-in-Education Challenges in Small Developing Countries, 169-193. In I. Lubin (Ed.), *ICT-Supported Innovations in Small Countries and Developing Regions*. Switzerland: Springer International Publishing.

- Hosman, L., & Arney, L.E. (2017). Taking Technology to the Field: Hardware Challenges in Developing Countries. *Information Technology for Development*, 23(4) 648-667. DOI: 10.1080/02681102.2017.1363028
- Arney, L. E. & Hosman, L. (2016). The Centrality of Electricity to ICT use in Low-Income Countries. *Telecommunications Policy*, 40(7) 617-627.
- Vergine, D., & Hosman, L. (2015). Designing Technology for Inclusive Growth. In Dutta, S., Geiger, T. & Lanvin, B. (Eds.) *The Global Information Technology Report 2015: ICTs for Inclusive Growth*. Geneva: World Economic Forum. Pp. 93-99. Available at http://www3.weforum.org/docs/WEF_Global_IT_Report_2015.pdf
- Hosman, L. (2014). International Service-Learning Partnerships: Lessons of Successes and Challenges that Defy Simple Categorization. *Partnerships: A Journal of Service Learning and Civic Engagement*, 5(1) 24-50. Available at <http://libjournal.uncg.edu/prt/article/view/725>
- Hosman, L. & Howard, P.N. (2014). Telecom Policy Across the Former Yugoslavia: Incentives, Challenges, and Lessons Learned. *Journal of Information Policy*, 4, 67-104. Available at <http://jip.vhost.psu.edu/ojs/index.php/jip/article/view/156/112>
- Hosman, L. & Cvetanoska, M. (2013). Teachers, Technology, & Training: Combining Theory with Macedonia's Experience. *International Journal of Education and Development using ICT*. 9(3) 28-49. Available at <http://ijedict.dec.uwi.edu/viewissue.php?id=36>
- Hosman, L. & Baikie, B. (2013). Solar Powered Cloud Computing Datacenters. *IEEE IT Professional*, March-April, 15-21.
- Hosman, L., & Fife, E. (2012). The Use of Mobile Phones for Development in Africa: Top-Down-Meets-Bottom-up Partnering. *The Journal of Community Informatics*, 8(3). Available at <http://ci-journal.net/index.php/ciej/article/view/560/938>
- Hosman, L. (2011). Making the Transition from Pilot to Scale: Examining Sustainability and Scalability Issues in a Public-Private Telecenter Partnership in Sri Lanka. *Information Technology for Development*, 17(3) 232-248.
- Hosman, L. (2010). Policy Considerations from a Nationwide IT-in-Education Initiative: Macedonia Connects. *Journal of Information Technology and Politics*, 7(4), 369-383.
- Hosman, L. (2010). Policies, Partnerships, and Pragmatism: Lessons from an ICT-in-Education Project in Rural Uganda. *Information Technology for International Development*, 6(1), 48-64. Available at <http://itidjournal.org/itid/article/view/488/213>
- Hosman, L. (2010). A National ICT-in-Education Initiative: Macedonia Connects. In Kamel, S. (Ed.) *E-Strategies for Technological Diffusion and Adoption: National ICT Approaches for Socioeconomic Development*. Hershey, PA: IGI Global. Pp. 1-16.
- Hosman, L. (2009). Dividing the Oils: Dynamic Bargaining as Policy Formation in the Nigerian Petroleum Industry. *Review of Policy Research: The Politics and Policy of Science and Technology*, 26(5), 609-632.

Hosman, L. (2009). Dynamic Bargaining and the Prospects for Learning in the Petroleum Industry: The Case of Kazakhstan. *Perspectives on Global Development and Technology*, 8(1), 1-25.

Hosman, L., Fife, E., & Arney, L. E. (2008). The Case for a Multi-Methodological, Cross-Disciplinary Approach to the Analysis of ICT Investment in the Developing World. *Information Technology for Development*, 14(4), 308-327.

Hosman, L. & Fife, E. (2008). Improving the Prospects for Sustainable ICT Projects in the Developing World. *International Journal of Media and Cultural Politics*, 4(1), 51-70.

Fife, E., Hosman, L., & Pereira, F. (2008). Governmental and Cultural Factors in Broadband Adoption. In Dwivedi, Y.K., Papazafeiropoulou, A., & Choudrie, J. (Eds.) *Handbook of Research on Global Diffusion of Broadband Data Transmission: Factors Affecting the Adoption, Usage and Economics of Broadband*. Hershey, PA: IGI Global.

Hosman, L. & Fife, E. (2007). Public Private Partnerships and the Prospects for Sustainable ICT Projects in the Developing World. *Journal of Business Systems Governance and Ethics*, 2(3), 53-66. Available at <http://www.jbsge.vu.edu.au/issues/vol02N03.html>

PEER REVIEWED (TECHNICAL) CONFERENCE PROCEEDINGS*

*In technical fields like computer science and information systems, papers in peer-reviewed conferences are accepted as **equal** in value to high-quality scholarly articles.

Linzy, K & Hosman, L. (2018). The SolarSPELL Offline Digital Library. Presented at WLIC-IFLA 2018 conference, published under creative commons in the IFLA (International Federation of Libraries Association) institutional repository, at: <http://library.ifla.org/2106/>

Baikie, B. & Hosman, L. (2011). Green Cloud Computing in Developing Regions: Moving Data and Processing Closer to the End User. *Proceedings of the 2011 Technical Symposium at ITU Telecom World (ITU WT)*, Geneva, Switzerland, IEEE Press, 24-28.

Hosman, L. & Cvetanoska, M. (2010). Technology, Teachers, & Training: Combining Theory with Macedonia's Experience. *Proceedings of the 4th International Conference on Information and Communications Technology and Development (ICTD)*, London, England. ACM Press.

Hosman, L. (2008). A Pilot Takes Off: Examining Sustainability and Scalability in the Context of a Sri Lankan Public Private Partnership Telecenter Project. *Proceedings of the 19th Australasian Conference on Information Systems*, Christchurch, New Zealand. Available at <http://www.bsec.canterbury.ac.nz/acis2008/Papers/acis-0074-2008.pdf>

Fife, E., Hosman, L., and Pereira, F. (2008). Public-Private Partnerships and Development: A New and Effective Model? *Proceedings of the 17th Biennial International Telecommunications Society Conference* in Montreal, Canada.

PEER REVIEWED WORKING PAPER PUBLICATIONS

Hosman, L. and Howard, P. N. (2010). Information Policy and Technology Diffusion: Lessons from Bosnia, Croatia, Macedonia, Montenegro, Serbia and Slovenia. *World Information Access*

Project Working Paper #2010.1. Seattle: University of Washington. Available at <http://www.wiaproject.org/index.php/publications/working-papers>

Hosman, L. (2009). Creating a Culture of Use in ICT for Education and Development Projects: The Case of Macedonia Connects. The University of North Carolina, Greensboro, McDowell Research Center for Global IT Management Working Paper Series.

WORKS IN PROGRESS

SolarSPELL Health and Education: Global Solutions with Local Impacts

It Takes a Team: Team-Based Courses and the Transformative Effect of Service Learning Opportunities

Creating Global Citizens: Student Experiences through Innovations for the Developing World

OTHER PUBLICATIONS & POLICY PAPERS

Hosman, L., (2020) Acceso a herramientas de aprendizaje digital más importante que nunca. Sentido Común. (Opinion piece / OpEd) Published 8/15/2020. Available at: https://www.sentidocomun.com.mx/articulo-contribuidores-cs.phtml?id_contrib=1798

Hosman, L., Ross, H.M., Petersen, S., Jalaghi, A., & Andrusaitis, K. (2020). Developing an Offline, Digital Library for South Sudan – The SolarSPELL Health: Nursing and Midwifery Library. *The South Sudan Medical Journal* (13)4, 153-155. Available at http://www.southsudanmedicaljournal.com/assets/files/Journals/vol_13_iss_4_nov_20/Solarspell-Final.pdf

Hosman, L. (2014). Emerging Markets: Top ICT4D Hardware Challenges. San Francisco: Inveneo. Report commissioned by USAID and ARM, Ltd. Available at <http://www.inveneo.org/wp-content/uploads/2014/07/FINALTop-ICT-Hardware-Challenges-White-Paper.pdf>

Baikie, B. & Hosman, L. (2011, September). The Green Cloud: A Broadband Springboard? Appropriate Hosting Infrastructure Improves Broadband Economics. *Intermedia*, 39 (4), 39-43.

Hosman, L. & Fife, E. (2011, May). Innovative Partnerships? Creating the Right Conditions for Mobile Growth in Africa. *Intermedia*, 39 (2), 20-25.

Hosman, L. (2011, February 28). Teacher Training on ICT Cannot be a One-Time Event. Educational Technology Debate (sponsored by *infoDev* and UNESCO). Available at: <https://edutechdebate.org/teacher-training/teacher-training-on-ict-cannot-be-a-one-time-event/>

UN E-Government Survey 2008: From E-Government to Connected Governance. New York: United Nations Department of Economic and Social Affairs Division for Public Administration and Development Management. Senior researcher and translator: French and Dutch, with focus on African Government Web Sites. February, 2008

Los Angeles County WiFi Feasibility Report. Prepared for the Los Angeles County Board of Supervisors and the County Information Office by the Center for Telecom Management, University of

Southern California. Principal Researcher. Available at
laounty.info/omd/q1_2008/cms1_086410.pdf

October, 2007

California's Telecommunications Strategy: Business and Management Challenges Strategic Vision Paper.
Prepared for the Chief Information Officer, State of California, by the Collaborative on E-
Governance, University of Southern California. Contributing author. March, 2007

Global E-Government Readiness Report 2005: From E-Government to E-Inclusion. New York: United
Nations, 2005. Senior researcher and translator: French, Italian, and Dutch. Main researcher for
African Government Web Sites. December, 2005

United Nations Global E-Government Readiness Report 2004: Towards Access for Opportunity. New
York: United Nations, 2004. Researcher, translator: French, Italian, and Dutch. November, 2004

FUNDING: GRANTS & GIFTS

Department of Defense US Pacific Command (PACOM). Offline Digital Libraries: Education
and Training for Disaster Preparedness, Response, and Recovery (Fiji) (\$376,000) 2021-2022

Marshall Islands Offline Digital Libraries for Primary Schools. Project to provide SolarSPELL
Offline Digital Library to remote, offline Marshall Islands schools in the Kwajalein Atoll
(\$56,100) 2021

Google ExploreCSR: Google funding to host a workshop at ASU introducing undergraduates
from underrepresented minority groups to graduate-level study in computer science research.
Workshop focus is on doing impactful work through computer science (\$18,000) 2020-2021

Arizona Community Foundation (Empower Kids South Sudan). Gift to create libraries and/or
carry out SolarSPELL-related projects on: improving the SolarSPELL library user interface;
creating a digital version of SolarSPELL's train-the-trainer training; and creating an
agricultural library for East Africa (\$212,000) 2020-2021

Vogel Family Foundation: To support SolarSPELL Refugee Camp School Libraries (\$10,000) 2020

MIT Tprize: Seed funding to bring SolarSPELL to Latin America (\$5,000) 2020

S. Rex & Joan T. Lewis Family Foundation. Gift to support SolarSPELL general operations.
(\$50,000) 2020

Krumwiede Lewis Foundation. Gift to support SolarSPELL general operations (\$50,000) 2020

Arizona Community Foundation (Empower Kids South Sudan). Gift to create libraries and/or
carry out SolarSPELL-related projects on: a Nursing and Midwifery Library for East Africa;
Internship program for Bridge2Rwanda Scholars; a Library localized for Gambela Refugee
camp schools in Ethiopia; a Sustainability Research project focused on reusing plastic waste;
a digital library for Arizona Tribal areas (\$270,000) 2020

Global Consortium for Sustainability Outcomes (GCSO) to develop sustainability curriculum for
Pacific Islands and pilot curriculum and training in Fiji (\$86,000) 2019-2020

Krumwiede Lewis Foundation. Grant to enable SolarSPELL work within Arizona, both at Tonto Creek Camp and to initiate collaborative ventures with Tribal Communities (\$15,000)	2019
S. Rex & Joan T. Lewis Family Foundation. Grant to enable field-related activities related to sustaining, deploying and impact-measuring for SolarSPELL digital libraries project. Will also enable launching of SolarSPELL partnership with Tonto Creek Camp in Arizona, as well as travel and training in Vanuatu and Samoa. (\$50,000)	2019
Arizona Community Foundation (Empower Kids South Sudan). Gift to carry out SolarSPELL offline digital library pilot project at three primary schools in Kakuma Refugee Camp, to serve South Sudanese living in Kenyan refugee camp. (\$60,000)	2019
Global Consortium for Sustainability Outcomes Proposal Concept Development grant. Grant to carry out workshop to further develop relationship with consortium partners, and to develop a funding proposal for submission to external agency. (\$10,000)	2018
Arizona Community Foundation (Empower Kids South Sudan). Grant to establish Juba Girls Schools as SolarSPELL Center of Excellence in Juba, South Sudan. Enables content creation to enhance train-the-trainer model, on-site teacher training, establishment of SolarSPELL Center, and establishment of SolarSPELL student club. Supports two interns to provide ongoing training and support, locally. (\$180,000)	2018-2020
S. Rex & Joan T. Lewis Family Foundation. Grant to enable field-related activities related to sustaining, deploying and impact-measuring for SolarSPELL digital libraries project. Will also enable launching of SolarSPELL partnership with Camp Tonto Creek in Arizona, as well as travel and training in Vanuatu and Samoa. (\$50,000)	2018
Arizona Community Foundation (Empower Kids South Sudan). Grant to create East Africa version of SolarSPELL digital library, as well as to provide multiple training workshops on-site in Kigali to multiple constituents: Rwandan Board of Education, Rwandan teachers South Sudanese teachers, Peace Corps volunteers, and Bridge2Rwanda scholars. Grant also funds development of back-end/database for library, Version 1 of East Africa library, and piloting library in up to 60 schools. (\$240,000)	2017-2019
S. Rex & Joan T. Lewis Family Foundation. Grant to enable field-related activities related to deployment and impact-measurement for SolarSPELL digital libraries project. Will enable travel and training in Vanuatu and Samoa. (\$50,000)	2017
KEEN Professorship. Mini-grant to develop, implement and disseminate Entrepreneurial Mindset (EM) content within project-based course at ASU (EGR 317 Humanitarian Engineering Projects II and HON 394 Design for the Developing World II). Enabled prototyping for three project-focused teams, establishment of an Ethics Roundtable, and for multiple guest experts and judges to travel and come to the class. (\$12,000)	Jan – May 2017
KEEN Professorship. Received grant second time (\$12,000)	Aug – Dec 2017
KEEN Professorship. Received grant third time (\$22,000)	Jan – May 2018
CPCConnect Grant (funded by Boeing), & Baker & Koob Learn By Doing Grant. SolarSPELL Project. To fund the building of SolarSPELL libraries on Cal Poly's campus and travel for students to carry out training on using the libraries in the Pacific Islands (\$10,000)	2016-2017

- VentureWell (formerly National Collegiate Inventors and Innovators Alliance (NCIIA)) Co-Principal Investigator. Sustainable Vision Grant to promote Entrepreneurship and Innovation among Engineers Without Borders Group and Center for Entrepreneurship and Innovation on Cal Poly's campus (\$10,000) 2015-2016
- Center for Expressive Technologies (CET). Co-Principal Investigator. Digital Storytelling for Community Empowerment at Cal Poly and Beyond. Project to foster engaged, cross-disciplinary collaboration among three Cal Poly Science, Technology and Society (STS) faculty, while enhancing hands-on Learn-By-Doing activities for their students through documentary-style filmmaking, focused on questions of climate change and technology in society and in schools, on-location in Vanuatu and Micronesia. (\$6,000) 2015-2016
- Pacific Telecommunications Council. Principal Investigator. "Solar Powered Digital Library Kit for Remote Pacific Island Schools." To design, develop, and deploy 50 solar powered digital library kits with Peace Corps volunteers across remote, rural, Pacific Island schools. (\$40,000) Jan 2015-Nov-2015
- Information Society Innovation Fund Asia (isif.asia). Co-team lead. "Chuuk State Solar Server Educational Hub." Design & deployment of solar-powered data center in Chuuk, FSM, to meet Department of Education's digital information needs. (\$30,000) Dec 2013-Dec 2014
- United States Agency for International Development (USAID) & ARM, Ltd. "Increasing Community Engagement Through ICT." Lead Researcher. Fixed Obligation Grant No. AID-OAA-F-13-00071 (\$110,000) Oct 2013-Apr 2014
- Information Society Innovation Fund Asia (isif.asia). Co-team lead. "PISCES Project: Pacific Island Schools Connectivity, Education, & Solar Project—Phase II: Project Expansion." Expanding Solar Computer Labs, Connectivity, & Technical Skills Building to three additional lagoon island schools in Chuuk, FSM (\$30,000) Feb 2013-Nov 2013
- Internet Society (ISOC) Community Grants Programme and Information Society Innovation Fund Asia (isif.asia). Principal Investigator. "Connecting the Chuuk Women's Council." To set up a computer lab in a Women's Center and initiate training for technology use. (\$8,000) Summer, 2013
- Google Inc., Pacific Telecommunications Council (PTC), & Internet Society (ISOC). Principal Investigator. "PISCES Project: Pacific Island Schools Connectivity, Education, & Solar Project." Led team of 11. Designed and carried out Long Distance WiFi and Solar Powering workshop for students from across Northern Pacific islands at University of Guam. Continued work in Chuuk, installing Solar Computer Lab and establishing long-distance connectivity to Udot island in Chuuk lagoon (FSM). (\$85,686) June 2012-June 2013
- IEEE Foundation. Principal Investigator: "Solar Transformation for Haitian Education," IIT Empowering Haiti. Enabled deployment of 2.4 KW Solar Powering System at Primary School in Lascahobas, Haiti. Led team of 10. (\$17,000) July 2011-Dec 2011
- Pacific Telecommunications Council. Principal Investigator: "Regional Renewable Energy ICT Policy Assessment Study: Focus on Five Pacific Island Nations: Palau, Guam, Federated States of Micronesia, Fiji, and Vanuatu." (\$27,500) 2011-2013

Internet Society (ISOC) Community Grants Programme. Principal Investigator: "Connecting the Community of Lascahobas, Haiti to the Internet." Enabled solar-powered long-distance WiFi deployment to Primary School in Lascahobas, Haiti. Led team of 10. (\$10,000) July 2011-Jan 2012

NSF. Consultant, "Human Centered Computing: Information Access, Field Innovation, and Mobile Phone Technologies in Developing Countries," National Science Foundation award IIS-0713074, Philip N. Howard, Principal Investigator 2008-2010

University of North Carolina McDowell Research Center for Global IT Management Grant. Principal Investigator: Fieldwork research for *Macedonia Connects* project (\$5,000) 2008

Association for Information Systems (AIS)-Microsoft Unlimited Potential Grant. Principal Investigator: Research, monitoring and evaluation issues of ICT-for-development project *EasySeva* in Sri Lanka (\$5,000) 2007-2008

**PUBLIC OUTREACH & ENGAGEMENT:
SOLARSPELL-RELATED WORKSHOPS, TRAININGS, TRAVEL, BUILD DAYS, & DEMO'S**

SolarSPELL Training for Peace Corps Volunteers. Organized and led 1-2 day trainings for Peace Corps Volunteers and their local counterparts on how to use, introduce, and teach with and about the SolarSPELL Digital Library. ****Brought Undergraduate Students along on most of these trips, following a project-based semester class. On ALL such trips I lined up additional educational activities, political, public & private sector meetings, & partnered work with local cultural organizations to maximize students' experience.****

Fiji	Jul 2018, Aug 2019
Comoros	Sep 2018, Sep 2019, Dec 2019
Rwanda	Mar 2018
Tonga	Dec 2016
Samoa	June 2016, May 2017, May 2018
Federated States of Micronesia (FSM)	Aug 2015, July 2016, July 2017
Vanuatu	Sept 2015, May 2017, Oct 2018, Oct 2019
Chuuk State, FSM (for Chuuk DoE Employees)	Nov 2015

SolarSPELL & Library Lab Training.

Organized and executed a team-led 2-day training workshop for teachers and administrators from Rwanda and South Sudan on both the SolarSPELL digital library and the Solar Library Lab. Included three ASU students and two ASU librarians.
Kabuga, Rwanda Jan 2018

Information Literacy & Content Curation Workshop

Organized and executed a team-led 5-day training workshop for 37 Bridge2Rwanda scholars on information literacy, scholarly research, copyright, and content curation. Included three ASU students and two ASU librarians.
Kabuga, Rwanda Jan 2018
One-day content curation workshop for ASU students, Tempe Campus (25 attendees) Mar 2018

Content Curation workshop for graduate students at Tec de Monterrey (MX) for curation of Spanish Language Library/Mexico Version (held digitally, over Zoom)	Nov 2020
On-Site SolarSPELL Build Days	
Port Vila, Vanuatu (Featured Hands-On Activity at National ICT Days Conference)	May 2017
Nuku'alofa, Tonga	Dec 2016
Organized Digital Storytelling Workshop for Creating Content for SolarSPELL	
One-Day Workshop at University of Auckland, Auckland NZ	Dec 2016
Two-Day Workshop with Further Arts Cultural Organization, Nuku'alofa Tonga	Dec 2016
Organized & Co-Hosted Hackathon for SolarSPELL with Hayden Libraries. Workshop with 14 librarians, five students, and one faculty member, to fast-track Content, Curation, and Back-End Website work on SolarSPELL	Oct 2016
SolarSPELL Appropriate Technology Workshop and Build Day. Organized and led on-campus workshop for students (and university faculty, staff, community members, and high-school students in some cases) on appropriate technologies for the developing world, <i>and</i> built SolarSPELL digital libraries	
Arizona State University, Poly Campus: <u>Built 25 libraries</u> (during COVID)	Nov 2020
Arizona State University, Poly Campus: <u>Built 75 libraries.</u>	Nov 2019
ASU, EMERGE Festival, Tempe Campus: <u>Built 60 libraries.</u>	Mar 2019
Arizona State University, Poly Campus: <u>Built 75 libraries.</u>	Nov 2018
Arizona State University, Poly Campus: <u>Built 75 libraries.</u>	Apr 2018
Arizona State University, Poly Campus: <u>Built 150 libraries.</u> Included high school students from ASU Prep, and East African Bridge2Rwanda Scholars	Oct 2017
Arizona State University, Poly Campus: <u>Built 100 libraries.</u> Included high school students from ASU Prep	Apr 2017
Cal Poly, San Luis Obispo, CA: <u>Built 50 libraries.</u> Included students from classes in multiple disciplines, ranging from Liberal Arts and Engineering Studies, to English.	May 2016
Cal Poly, San Luis Obispo, CA: <u>Built 30 libraries.</u> Co-Hosted with Engineers Without Borders and VentureWell	Oct 2015
Public Outreach: Booths or Display Tables with Demos & Live Explanations	
Digital Festival Tahiti	Oct 2019
International Conference of Indigenous Archives, Libraries, and Museums, Calif.	Oct 2019
US Global Leadership Coalition Expo, Phoenix AZ	May 2019
Sustainability Solutions Celebration, Phoenix AZ	Feb 2018
Pacific Education Conference, Palau	Jul 2017
Society for International Development, Washington DC	May 2017, May 2019
ASU Night of the Open Door (with School of Earth and Space Exploration)	Feb 2017
ASU Day at the Capitol	Feb 2017, Feb 2018
Learning Innovation Showcase, ASU	Jan 2017
Innovation Showcase, ASU (Poly Campus)	Dec 2016, Apr 2017, Dec 2017
Homecoming, ASU	Oct 2016
President's Forum	Oct 2016
Engineering Expo, Cal Poly	May 2015
Booth at San Luis Obispo Maker Faire, Cal Poly	April 2015

CONFERENCE PRESENTATIONS & INVITED TALKS

- Overview of the SolarSPELL initiative. Invited talk at the Department of Education, Instituto Tecnológico y de Estudios Superiores de Monterrey Sep 2020
- Technology and Innovation Policy for Island Sustainability: SolarSPELL in Fiji. Invited talk at University of Delaware, Biden School of Public Policy and Administration's Island Policy Lab & United Nations Universities Consortium of Small Island States Sep 2020
- Inventing the SolarSPELL Digital Library: Focus on Challenges, Successes, and Sustainability. Rob & Melani Walton Sustainability Solutions Service Virtual Sustainability Solutions Innovation Fair. Jun 2020
- L'Inclusion Numérique au Service de l'Insertion Professionnelle. Invited talk (in French) at Digital Festival Tahiti. Papeete, Tahiti Oct 2019
- SolarSPELL: A Localized Digital Library for Remote, Offline Locations. International Conference of Indigenous Archives, Libraries, and Museums. Temecula, CA Oct 2019
- Why Offline Technologies Provide Better Solutions for Global Education. Engineering for Change (E4C) Invited webinar Jul 2019
- We Don't Need No Stinkin' Internet: Taking it All Offline with SolarSPELL. CSPO 20th Anniversary Conference: Rightful Place of Science-2. Tempe, AZ May 2019
- Improving Educational Opportunities in Remote Pacific Islands—The SolarSPELL Digital Library. Invited talk at the East-West Center, Honolulu, HI Mar 2019
- The Offline Internet and SolarSPELL. Invited talk at the UNESCO Panel at World Library and Information Congress 84th IFLA General Conference and Assembly, Kuala Lumpur, Malaysia Aug 2018
- The SolarSPELL Offline Digital Library. Paper presented at World Library and Information Congress 84th IFLA General Conference and Assembly, Kuala Lumpur, Malaysia Aug 2018
- The SolarSPELL digital library in the Pacific Islands. Invited talk at the University of the South Pacific, Suva, Fiji Dec 2017
- Innovating and Iterating From the Field: Technology for Development. Invited talk at the Consortium for Science, Policy, & Outcomes (CSPO) at Arizona State University, Washington DC Nov 2017
- SolarSPELL: The Solar Powered Educational Learning Library. Invited talk at Peace Corps Headquarters, Washington DC Nov 2017
Invited talk at State Department Cultural Affairs Unit, Washington DC Nov 2017
- Challenges and Opportunities for Delivering and Using Open Access Materials in Developing Countries. 14th Annual Open Education Conference, Anaheim, CA Oct 2017

Developing Partner Networks to Improve Library Access. 30th Pacific Education Conference, Koror, Palau Jul 2017

Social Development and the SolarSPELL Digital Library. Invited Keynote Speaker at ICT Days Conference and Invited Panel Member at co-located Internet Governance Forum Meeting. Port Vila, Vanuatu May, 2017

SolarSPELL: Solar Powered Educational Learning Library. Invited talk to MIT Program on Information Science speaker series. Cambridge, MA April 2017

Innovating and Iterating from the Field: The SolarSPELL Digital Library. Engineering Education Seminar Series, ASU Polytechnic School March 2017

Becoming a Practitioner-Scholar in Technology for Development. School for the Future of Innovation in Society (SFIS) Winter School, ASU, Mesa AZ Jan 2017

Addressing ICT-in-Education Challenges in Small Island Developing States (SIDS) as a Practitioner-Scholar. Pacific Telecommunications Council (PTC) 39th Annual Conference, Honolulu HI Jan 2017

Quick Impact: An on-campus “Build Day” to increase awareness, involvement, and understanding at the global level. VentureWell OPEN 20th Annual conference, Portland OR March 2016

Design, Develop, Deploy: The Solar Digital Library Kit for Remote Pacific Island Schools. Inaugural Making and Doing Initiative. 4S: Society for Social Studies of Science Annual Conference, Denver, CO Nov 2015

PTC Community Grants Recipient Project Presentation: Solar Powered Digital Library Kits for Remote Pacific Island Schools. Pacific Telecommunications Council (PTC) 38th Annual Conference, Honolulu HI Jan 2016

SPELL: Solar Powered Educational Learning Library.
 Open Lecture, Department of Computer and Systems Science, Stockholm Univ. Dec 2015
 Cal Poly Kennedy Library Open Access Week 2015 Oct 2015
 Cal Poly Political Science Alumni Board Meeting, Cal Poly San Luis Obispo Oct 2015
 OLPC SF Community Meeting, San Francisco State University, San Francisco May 2015

Solar Powered Digital Library Kits for Pacific Island Schools: Hands-On Projects in Liberal Arts and Engineering Studies (LAES). More Than a Motto Conference, Poster Presentation. Cal Poly San Luis Obispo, CA May 2015

Internet for Development: Interactions, Practices, and Lessons Learned. Spider Consultation for the World Bank Development Report 2016, Stockholm, Sweden April 2015

Building Boundary-less Classrooms: A View From the Field—Our Micronesia Experience. Invited Keynote, Asian Development Bank ICT Week Conference, Manila, Philippines Oct 2014

Emerging Markets: Top ICT4D Hardware Challenges. Invited Webinar. Engineering for Change (E4C). Sept 2014

- IEEE Global Humanitarian Technology Conference, San Jose, CA Oct 2014
Pacific Telecommunications Council (PTC) 37th Annual Conference, Honolulu HI Jan 2015
- Student Creativity Inside and Outside the Classroom. Invited Panel. Infrastructures of Creativity Conference, Illinois Institute of Technology, Chicago IL April 2014
- Technology in Developing World Schools: Promising Possibilities and Potential Pitfalls. Invited Talk, California Polytechnic State University, San Luis Obispo, CA April 2014
- The Centrality of Electricity for Internet Uptake in Low-Income Countries. (Received Best Paper Award: Meheroo Jussawalla Research Paper Prize) Pacific Telecommunications Conference (PTC) 36th Annual Conference, Honolulu, HI Jan 2014
IEEE Global Humanitarian Technology Conference, San Jose, CA Oct 2014
- Teaching ICTD – Courses, Degree Programs, and Student Field Experiences
PISCES Pacific Offline Educational Server Demo
Both: ICTD 2013 conference, Cape Town, South Africa Dec 2013
- Towards a greater openness – Opportunities and challenges in open online education and open access. E-Learning Africa Conference. Windhoek, Namibia May 2013
- Energy as an overlooked driver of ICT uptake across the developing world. International Studies Association 54th Annual Conference, San Francisco, CA April 2013
- PISCES Project: Pacific Island Schools, Connectivity, Education and Solar Project.
Invited presentation at University of California, Berkeley, Center for Information Technology research in the Interest of Society (CITRIS) Research Exchange March 2013
Pacific Telecommunications Council (PTC) 35th Annual Conference, Honolulu Jan 2013
PacINET 10th Annual Conference of the Pacific Islands Internet Society.
University of the South Pacific, Suva, Fiji Nov 2012
- Technology for Development: Why Training Trumps Technology. School of International Relations
Director's Lecture on Theory and Practice, University of Southern California Sept 2012
- PISCES Project: Pacific Island Schools, Connectivity, Education and Solar Project.
Invited presentation at Asian Development Bank Sept 2012
Invited presentation at University of Colorado, Boulder, ATLAS Institute Sept 2012
Invited presentation to Engineers Without Borders (EWB), IIT Sept 2012
- Learning Lessons and Moving Forward in ICT4D Projects. Spider ICT4D Seminar Series, University of Stockholm, Sweden May 2012
- Beyond the Design: Why the Ecosystem Matters in Technology for the Developing World. Invited Talk at the Institute of Design, Illinois Institute of Technology, Chicago IL April 2012
- The Prospects for Small Island Nations to Participate in the Global Information Age. International Studies Association 53rd Annual Conference, San Diego, CA April 2012
- Sharing Best Practices in ICTD Academic Programs. Fifth International Conference on Information and Communication Technologies and Development (ICTD2012), Atlanta, GA March 2012

- Utilizing Classroom Experiences to Make an Impact in the Developing World: IIT Empowering Haiti.
National Collegiate Inventors and Innovators Association 16th Annual Open 2012 Conference,
San Francisco, CA March 2012
- The Energy Issue is Slowing ICT4D in Island Nations – Will Renewable Energy be the Answer?
Public-Private Partnership Innovations in ICT: The Role for Academia.
Renewable Regional Energy, ICT, & Data Center Assessment: Focus on Five Pacific Island Nations
All: Pacific Telecommunications Council (PTC) 34th Annual Conference, Honolulu Jan 2012
- Green Cloud Computing in Developing Regions: Moving Data and Processing Closer to the End User.
International Telecommunications Union (ITU) WT11 Technical Symposium at ITU Telecom
World, Geneva, Switzerland Oct 2011
- It Takes a Team: Solar PV Installation in Lascahobas, Haiti to Power 400+ OLPC XO Laptops. OLPC
Community Summit, San Francisco Oct 2011
- One Laptop per Child, Solar-Based WiFi and the Complexities of ICT for Development. Invited Talk:
ATLAS Institute, University of Colorado at Boulder. Available at:
<http://www.youtube.com/watch?v=YDSB0HlhDwA> Sept 2011
- Technology for Development: No Shortcuts. TedxIIT conference. Available at:
<http://www.youtube.com/watch?v=FKTxUA0bCl0> March 2011
- Solar-Powered Data Centers for Developing Regions: Small is Beautiful, Again. Pacific
Telecommunications Council (PTC) 33rd Annual Conference, Honolulu, HI Jan 2011
- One Laptop per Child (OLPC) in Papua New Guinea and the Solomon Islands: Reflections from Four
Site Visits. PTC 33rd Annual Conference, Honolulu, HI Jan 2011
- Technology, Teachers, and Training: Combining Theory with Macedonia's Experience. Information &
Communications Technology for Development (ICTD), London, England Dec 2010
- Creating a Culture of use in ICT in Education and Development Projects: The Case of Macedonia.
American Political Science Association Annual Meeting, Washington DC Sept 2010
- Implementing Policy at the Classroom Level: Macedonia's Experience with Training Teachers for a
Technology-in-the-Schools Initiative. Midwest Political Science Association Annual Meeting,
Chicago, IL April 2010
- Technology, Teachers, and Training: Combining Theory with Macedonia's Experience. International
Studies Association 51st Annual Conference, New Orleans, LA Feb 2010
- Public-Private Partnership Innovations in ICT. Pacific Telecommunications Council 32nd Annual
Conference, Honolulu, HI Jan 2010
- Promoting Social Inclusion through a Nation-Wide ICT-in-Education Endeavor: Macedonia Connects.
Global Information Technology Management Association (GITMA) 10th Annual Conference,
Mexico City, Mexico June 2009

- Creating a Culture of Use in ICT in Education and Development Projects: The Case of Macedonia.
International Studies Association 50th Annual Convention, New York, NY Feb 2009
- Partnerships for Scalable and Sustainable ICT Projects: *EasySeva* in Sri Lanka. International Studies
Association 50th Annual Convention, New York, NY Feb 2009
- Development Issues: Models of ICT Sustainability in Developing Regions. Measurement Considerations
and Success Factors. Pacific Telecommunications Council (PTC) 31st Annual Conference,
Honolulu, HI Jan 2009
- Technology in the Classroom in Conditions of Infrastructural and Capacity Constraints: Lessons from
Uganda. ICIS 2008 1st Annual SIG GLOBDEV Workshop, Paris, France Dec 2008
- Promoting Social Inclusion through a Nation-Wide ICT-in-Education Endeavor: The Case of *Macedonia
Connects*. ICIS 2008 Pre-Conference Development Workshop, Paris, France Dec 2008
- A Pilot Takes Off: Examining Sustainability and Scalability in the Context of a Sri Lankan Public-Private
Partnership Telecenter Project ACIS 2008 Christchurch, New Zealand Dec 2008
- Promoting Mobile Phone Usage in Africa: the promise and challenge of Top-down/Bottom up
Innovation. Global Mobility Roundtable 2008, Auckland, New Zealand Nov 2008
- Exploring the Role of Partnerships for Sustainable ICT Projects to Bridge the Digital Divide. American
Political Science Association 104th Annual Meeting, Boston, MA Aug 2008
- The Challenges Facing African Governments in Adopting ICT Technologies: Focus on Education.
International Studies Association 49th Annual Convention, San Francisco, CA March 2008
- Corporate Social Responsibility and Bridging the Digital Divide: Can Divergent Motivations Peacefully
Co-Exist? ISA-West Annual Convention, San Francisco, CA Sept 2007
- Africa and the M-Society: The Challenges of Joining the Information Revolution. 6th Annual Global
Mobility Roundtable, Los Angeles, CA June 2007
- Public Private Partnerships and the Prospects for Sustainable ICT projects in the Developing World. 6th
Annual Global Mobility Roundtable, Los Angeles, CA June 2007
- Bridging the Digital Divide: Human Empowerment or Increased Market Share? How Can Divergent
Motivations Peacefully Co-Exist? International Studies Association 48th Annual Convention,
Chicago, IL March 2007
- Jumpstarting Growth with ICTs in the Developing World: Is Corporate Involvement the Panacea? 34th
Research Conference on Communication, Information and Internet Policy, Telecommunication
Policy Research Conference (TPRC). George Mason University, Arlington, VA Sept 2006
- Dividing the Oils: Corporations, Petroleum-Rich States, the Development Interface and the Prospects for
Learning. The 2005 Middle East & Central Asia Politics, Economics and Society Conference,
Salt Lake City, Utah Oct 2005

Power Without Responsibility: Problematizing the Role of Multinational Corporations in Situations of Political Violence. Women in International Security (WIIS) Symposium, Washington D.C.
July 2004

TEACHING EXPERIENCE

Courses Taught, **Arizona State University**:

Global Technology and Development (GTD 501) F 2017 (in-person)
F 2018, F 2019 (online)
F 2020 (ASU Sync—in-person & online)

Introductory grad-level course introduces students to field and study of global development with an emphasis on the variable of technology and the major role it has played in the history of human development. Provides background and context for examining role of technology from economic and social development perspectives. Core course in M.S. in Global Technology and Development program.

Humanitarian Engineering Projects I (EGR 307) [Standalone course] F 2020
Team-based, challenge-focused lab course enabling students to work on a real-world project taking place “in the field.” Course focused on one project.

Innovation in Action (FIS 494/GTD 598/HSD 598) F 2019
Course offered multiple opportunities: graduate students had opportunity to mentor undergraduate teams in Humanitarian Engineering Course/GlobalRESOLVE course, or could choose individual or grad-level team project to which to continue.

Humanitarian Engineering Projects II (EGR 317) & GlobalResolve: Design for the Developing World Projects II (HON 394) [Combined Engineering & Honors Course]
Sp 2017, Sp 2018, Sp 2019
F 2018, F 2019

Team-based, challenge-focused / project-based lab course enabling students to work on a real-world project taking place “in the field.” Multiple projects ran simultaneously; students chose one. Each project featured one mentor who met with teams on weekly basis. Lead instructor coordinated all teams and mentors. All students were given opportunity to travel to field to implement their work.

Technology & Society (FIS 201) F 2016
Why we get the technologies that we do, and who decides. What innovation is, and why some innovations succeed while others fail. How technology affects society, and vice-versa. Core course in Future of Innovation in Society undergraduate program.

Courses Taught, **California Polytechnic State University**:

Technology & Public Policy (POLS 451) F 2014, F 2015

Research Design (POLS 359) F 2014, W 2015, S 2015, F 2015, S 2016

Regulatory & Economic Policy (POLS 550) W 2015, W 2016

Global Synthesis in Liberal Arts and Engineering Studies (LAES 411) S 2015, W 2016
SPELL Solar Digital Library.

Multidisciplinary team-based, project-based course focused on designing, developing, and deploying an offline solar-powered digital library for remote, rural Pacific Island schools without electricity or connectivity. Also built website loaded with open-access educational content specifically curated for the Pacific Islands. Project website: <http://solarspell.org/> Library's open-access content website (mirror of offline version): <http://pacificschoolserver.org/> Partnered with US Peace Corps in Vanuatu and Federated States of Micronesia for training and deployment of first 50 libraries.

Advanced Project-Based Learning in Science, Technology, and Society (ISLA 456)

S 2016

Courses Taught, **Illinois Institute of Technology:**

Technology for International Development

Fall 2012, 2013

Examines the use of Information and Communication Technologies (ICTs) vis-à-vis global development efforts from a multidisciplinary social sciences perspective.

Fieldwork Methods

Spring 2013, 2014

Real-World, Hands-on, Project-Based Qualitative Methods class open to all majors at IIT. In Spring 2014 students developed a baseline, mobile-phone friendly survey for evaluating schools' readiness to receive computers/technology. Used open-access data collection tool ODK Collect. Local partners in Micronesia implemented survey and collected data. In Spring 2013 students worked with partners in Chuuk, Federated States of Micronesia and developed (solar-powered) server pre-loaded with educational content for schools with computers but no Internet connectivity. Server content customized for Micronesia, while web-based interface allows for bring-your-own-device usability.

Entrepreneurial Interprofessionalization (EnPRO) Project

Spring 2012

Solar-Powered-Computer-Lab-in-a-Box.

Multidisciplinary team-based, project-based course focused on designing and bringing to market an innovative product: a Solar-Computer-Lab-in-a-Box: an all-in-one, turnkey, simplified direct current (DC)-only solution that includes 6 Intel Classmate laptops, Solar panels, charge controller, a WiFi Router, and comes pre-wired, in packaging that becomes the furniture/table for the lab. Class functions as a start-up and performs market research, creates website and utilizes social media, attracts sponsors and partners, writes a business plan, designs and builds product prototype, and deploys it in first developing world implementation. <http://www.solarcubed.org/>

InterProfessional (IPRO) Project

Fall 2010, Spring 2011, Fall 2011

Improving the Primary Educational Experience in Haiti.

Multidisciplinary team-based, project-based course focused on designing and deploying a replicable solar-powering solution for primary schools in Haiti. Led three team trips to Haiti, of which the first was a site survey visit (1/11). On the second trip (8/11), our team installed a 2.4 KW DC-only solar powering system at a primary school to charge up to 500 donated laptops, with funding from an IEEE Foundation grant. On the third trip (12/11), our team set up solar powered Internet connectivity and WiFi across the primary school campus, with funding from Internet Society Community Grant.

International Relations

Fall 2009, 2010, 2011 2013, Spring 2013

Global Political Economy

Spring 2010, 2011, 2014, Fall 2012

Promise and Problems of Science and Technology Policy

Spring 2010

Comparative Politics

Fall 2009

Global Political Economy in Paris (taking advantage of numerous site visits and guest speakers from relevant organizations and institutions in the city) Summer 2010

Courses Taught, **University of Southern California:**

Quantitative Analysis II (Econometrics course at Graduate Level), USC School of Policy, Planning and Development. Lecturer. Spring 2007

Teaching Assistant, Los Angeles and the American Dream, Department of Geography Fall 2004

Teaching Assistant, Introduction to International Relations, School of IR Spring 2002

RESEARCH EXPERIENCE

In-Country Fieldwork Research/Project Experience:

Comoros, Croatia, Federated States of Micronesia, Fiji, Guam, Haiti, Macedonia, Palau, Papua New Guinea, Rwanda, Samoa, Senegal, Slovenia, Solomon Islands, Sri Lanka, Tonga, Vanuatu

Research Affiliate, USC, Institute for Communication Technology Management 2007-2014

Research Assistant, Pacific Council on International Policy, USC 2006

Research Assistant, USC, Center for Telecommunications Management 2005-2006

Research Fellow, Translator, (French, Dutch, Italian,) UN Global E-Government Survey and Report, United Nations Center for E-Government, USC 2004-2008

ADDITIONAL EDUCATION, EXPERIENCE & PROFESSIONAL DEVELOPMENT

Arizona State University, Leadership Academy (Peer Leadership Academy Cohort 5) 2017-2018

Fordham University, Advanced Certificate in Emerging Markets and Political Risk Analysis 2002

Venice International University (Italy), Graduate Study Program in Economics and Finance 2001

Universiteit van Amsterdam, *Staatsexamen*: Dutch language diploma (grants permission to study at the University level in Dutch in The Netherlands) 2000

United Nations, Geneva, Graduate Study Programme (30 students are admitted each summer) 2000

Université de Lille-Charles de Gaulle (France), *Diplôme D'Etudes Françaises (Deuxième Degré)*: French Language Diploma, Second Level (grants permission to study at the University level in French) 1998

Université de Nice-Sophia Antipolis (France), *Diplôme D'Etudes Françaises (Premier Degré)*: French Language Diploma, First Level 1997

House of Commons, London, Internship with MP Teresa Gorman 1995

PROFESSIONAL SERVICE

Board Member, Swedish Program for ICT in Developing Regions (SPIDER), funded by the Swedish International Development Agency, hosted at Stockholm University	2010-present
SFIS Undergraduate Curriculum Committee, ASU	2016-present
SFIS Innovation in Global Development PhD Planning Committee	2017-2018
University Faculty Council Committee Member: Illinois Institute of Technology	2012-2014
Associate Chair (Interim), Department of Social Sciences, Illinois Institute of Technology	2011-2012
Curricular Development Committee, Lewis College at IIT: Develop curriculum and plan for new Undergraduate BS Degrees: Technology and Economic Development, Economic Policy	2012-2013
Undergraduate Studies Committee Member: Illinois Institute of Technology	2009-2011
Faculty Co-Advisor, Engineers Without Borders (EWB), Illinois Institute of Technology	2010-2014
Faculty Co-Advisor, Engineers for a Sustainable World (ESW), IIT	2012-2014
Fulbright Campus Interview and Evaluation Committee, IIT	2012-2014
Academic Honesty Committee, Social Sciences, IIT	2014
Secretary/Treasurer of Science, Technology, and Policy (STEP) Section, American Political Science Association	2011-2014
Executive Board Member, Information Technology & Politics Section (ITP), American Political Science Association	2010-2014
Executive Board Member, International Communication Section (ICOMM), International Studies Association	2009-2011

Journal Referee:

Journal of Political Science Education (2020)
Information Technology for Development (2009-present)
Telecommunications Policy (2016-present)
Journal of Engineering Education (2019)
Journal of Engineering Studies (2017)
Journal of Ecotourism (2017)
Information Technologies and International Development (2004-2017)
Journal of Information Technology and Politics (2011)
Business and Politics (2011)
Information Systems Management (2010)
Manuscript Reviewer for Routledge (2010)
Review of Policy Research (2013)
Journal of Communication (2011)
Global Environmental Politics (2013)
International Journal of Electronic Business (2010)
Journal of Business Systems, Governance & Ethics (2008)

Conference Paper Referee:

Pacific Telecommunications Council Annual Conference (2008-2017)
Information Communication Technology and Management (ICTM) (2012)
International Federation for Information Processing Working Group 9.4: Social Implications of Computers in Developing Countries (2008-2010, 2018)
Hawaiian International Conference on System Sciences (HICSS) (2008)
Australasian Conference on Information Systems (2007)
Los Angeles Global Mobility Roundtable (2007)

Conference Planner, Conference Proceedings Editor:
Los Angeles Global Mobility Roundtable, 2007

Conference/Program Committee Member:
Global Mobility Roundtable, Cairo, Egypt, 2009
Australasian Conference on Information Systems, Christchurch, New Zealand, 2008
Information Communication Technology and Management, Wroclaw, Poland, 2012

Senior Program Committee Member/Referee:
ICTD 2015 (Information & Communication Technologies and Development)
ICTD 2016

Grant Reviewer:
Swiss National Science Foundation SNSF, 2019
SSHRC Social Sciences and Humanities Research Council of Canada, 2016
University of Gothenburg Centres for Global Social Challenges (UGOT Challenges), 2015
Volkswagen Foundation African Initiative: Knowledge for Tomorrow: Cooperative Research Projects in Sub-Saharan Africa, 2014

STUDENT AND STAFF MENTORING (SOLARSPELL)

SolarSPELL Staff

Zeinab Serhan (ASU GTD MS grad 2020) hired as full-time Information Technology Advisor July 2020 – present

Jude Schroder (ASU BA grad 2020) hired as part-time Videographer July 2020 – present

Katarina Thorlin (ASU BA grad 2016) hired as full-time Library Specialist June 2020 – present

Courtney Finkbeiner hired as full-time Student Engagement Coordinator May 2020 – present

Coreen Walsh hired as full-time Project Manager Mar 2020 – present

Stephanie Petersen (ASU M.Ed. grad 2012, ASU BA grad 2007) hired as full-time Project Manager Mar 2020 – present

Sara Jordan (ASU BA grad 2016) hired as full-time library specialist: Sep 2018 – present

Chloe Scott (ASU BA grad 2018) full-time intern Jan – May 2018; hired as full-time management intern: July 2018 – Mar 2020

Kristen Linzy (ASU GTD MS grad 2017, ASU BA grad 2015) hired as full time Project Coordinator: April 2018 – Dec 2019

SolarSPELL Student Workers

Matthew Jurenka (ASU Computer Science undergrad 2023) software developer: Fall 2019 – present

Lee (Elizabeth) Chiffelle (ASU Astrophysics undergrad 2022) special projects: Nov 2019 – present

Kaitlyn Matthews (ASU Cronkite School Journalism undergrad 2022) marketing and social media: Fall 2019
Phuc Tran (ASU HIDA film studies undergrad 2020) student videographer: Fall 2019-present
Michael Santos (ASU HIDA film studies undergrad 2020) student videographer: Fall 2019
Vipanchi Chacham (ASU Software Eng. MS 2020) web designer: Fall 2019
Tharun Kumar (ASU Computer Science MS 2020) meta-data specialist: June 2019-Dec 2019
Jude Schroder (ASU PolSci undergrad 2020) student videographer: Apr 2019-May 2020
Erika Karner (ASU BA undergrad 2019) full-time marketing and communications intern: Jan – May 2019
Bailey de la Torre (ASU undergrad 2019) full time grant and donor relations intern: Jan – May 2019
Sai Manideep Cheekatimalla (ASU MS grad 2019) meta-data specialist: Jan 2019 – May 2019
Vignesh Mahesh (ASU Electrical Engineering grad 2020) charge controller and battery redesign: Spring 2019-Spring 2020

SolarSPELL Student Interns (PT = Part Time; FT = Full Time)

Amanda Rodriguez (ASU Global Technology & Development MS 2021) PT Agriculture content curation intern/fellow
Marybeth Bonner (ASU Sustainability & Supply Chain Management undergrad 2023) PT agriculture content curation intern Fall 2020
Mary Haddad (ASU Earth & Environmental Studies & Biological Sciences undergrad 2022) PT agriculture content curation intern Fall 2020
Samantha Sokol (ASU Electrical Engineering undergrad 2022) PT SolarSPELL testing intern Fall 2020
Karime Arreguin (ASU Graphic Information Technology undergrad 2021) PT user interface/user experience intern Fall 2021
Kate Ross (Brandeis University International & Global Studies undergrad 2021) PT content curation intern Fall 2021
Tu'ufuli Reupenny (ASU Interdisciplinary Studies undergrad 2020) PT metadata intern Fall 2021
Devin Robbins (ASU Sustainability undergrad 2021) PT content curation intern Fall 2021
Eleni Birhane (ASU Global Technology & Development MS 2021) PT content curation intern Fall 2021
Kara Gardner (ASU Biology & Society undergrad 2021) PT content curation intern Fall 2021
Wen Wendt (ASU Political Science undergrad 2021) PT content curation intern Fall 2021
Mia Czarnecki (ASU Sustainability & Spanish undergrad 2021) PT content curation intern Fall 2021
Brittany Carter (ASU Web Development undergrad 2021) PT User Interface/User Experience intern Fall 2021
Samantha Cayo (San Jose State University Master's Library & Information Science 2021) PT meta-data specialist intern Fall 2021
Zane Encinas (ASU Philosophy, English, Sustainability undergrad 2022) PT intern content curation Fall 2021
Jason Ormsby (ASU Computer Science undergrad 2021) PT intern computer science special projects Fall 2021
Winnie Scopas (Abilene Christian University undergrad 2023) FT content curation intern Summer 2020
Gilgal Anisah (ASU Biomedical Engineering Master's 2021) FT content curation intern Summer 2020
Camden Paillot (ASU Sustainability undergrad 2020) FT content curation intern Summer 2020
Colin Marvin (ASU Geography undergrad 2021) FT content curation intern Summer 2020
Claudia Fragoso (ASU Biomedical Engineering Master's 2021) FT content curation intern Summer 2020
Shannon Quigley (ASU Geography undergrad 2021) FT content curation intern Summer 2020
Grace Umerani (University of Rochester Public Health undergrad 2021) FT content curation intern Summer 2020
Priya Borah (ASU Biomedical Engineering undergrad 2021) FT content curation intern Summer 2020
Karla Cosio (ASU Electrical Engineering undergrad 2022) FT content curation intern Summer 2020

Ashley Tse (ASU Biomedical Engineering undergrad 2023) FT content curation intern Summer 2020
Tyler Miller (ASU Art History & American Indian Studies undergrad 2021) FT content curation intern Summer 2020
Camryn Lizik (ASU Public Health undergrad 2020) PT intern Spring 2020, Summer 2020, Fall 2020
Melissa Kim (ASU undergrad) PT intern Fall 2019 – Spring 2020
Samantha Whitman (ASU Human & Social Dimensions of Science & Technology PhD 2021) Grad advisor to undergraduate teams working on SolarSPELL Health library Fall 2019 – Spring 2020
Madisyn Goodballet (ASU undergrad) FT metadata fellow Summer 2019-Spring 2020
Matthew Jurenka (ASU Computer Science undergrad 2023) PT web development intern Fall 2019
Alexandra Pippett (ASU undergrad) FT teacher lesson plan development intern Spring 2019- PT Fall 2019
Brooke Nelson (ASU undergrad) PT content curation and special projects intern Fall 2018-Summer 2019
Alma Varon (ASU undergrad) FT content curation intern: Summer 2019
Hailey Campbell (ASU undergrad) FT content curation intern: Summer 2019
Vanessa Villalobos (ASU undergrad) FT content curation intern: Summer 2019
Justyn Zeider (ASU undergrad) FT content curation intern: Summer 2019
Bailey De La Torre (ASU Nonprofit Leadership & Management undergrad 2019) FT Marketing & Social Media intern Spring – Summer 2019
Ryan Kirmis (ASU Engineering undergrad 2019) FT software intern Summer 2018
Kusum Ijari (ASU Computer Science Master's 2019) FT user experience/user interface intern Summer 2018
Ruth Oliver (ASU undergrad 2020) FT content curation intern Summer 2018
Ricardo Ornelas-Montes (ASU undergrad 2019) FT content curation intern Summer 2018
Jeremy Seidner (ASU undergrad 2019) FT content curation intern Summer 2018
Maddie Arnold (ASU Future of Innovation in Society & Journalism undergrad 2020) FT content curation intern Summer 2018
Adriana Castillo (ASU Political Science undergrad 2020) FT content curation intern Summer 2018
Victor Ruiz-Aviles (ASU grad student 2020) FT content curation intern Summer 2018
Vianca Rodriguez (ASU grad student 2020) FT content curation intern Summer 2018
Erika Karner (ASU Nonprofit Leadership & Management undergrad 2019) FT Fundraising intern Spring 2019
Chloe Scott (ASU Nonprofit Leadership & Management undergrad 2018) FT SolarSPELL undergrad Spring 2018

STUDENT MENTORING / ADVISING

Arizona State University Student Advising

Human and Social Dimensions (HSD) of Science and Technology PhD Program

Martin Perez Commisso, Fall 2017 – Summer 2020

Global Technology for Development: Research Assistant

Jared Sidman, Research Assistant, Fall 2019 – Spring 2020; Fall 2020 – Spring 2021

Coverdell Fellow (Returned Peace Corps Volunteer)

Brooke Bettis, Fall 2020 – Spring 2021

Global Technology for Development Master's Applied Project/Capstone Advisor

2020-2021: Eleni Birhane: SolarSPELL Training: Importance of Providing Appropriate and Localized Information to Users

2020-2021: Johanna Gilbert Vazzana: The Role of Cybersecurity in International Development
2019-2020: Zeinab Serhan: SolarSPELL Usability: Studying the User Experience to inform Future Improvements
2018: Kristen Linzy: Reporting and Standardizing In-Field Impact Assessment of the SolarSPELL Digital Library
2018: Lyndsay Booth: Examining the role of information and communication technologies (ICTs) vis-à-vis beneficiary participation in development projects

Barrett Honors Thesis Advisor

2020: Courtney Raymond: Bringing Evidence Based Practice to Developing and Underprivileged Countries: A Focus on Women's Health and Midwifery
2019-2020: Emily Sherman: Distribution of Entrepreneurial Education to Underdeveloped Communities to Foster Economic Growth
2018-2020: Madison Arnold: SolarSPELL: A Documentary
2017-2018: Bethany Thielen: Redesigning the SolarSPELL content library website, incorporating user experience design principles
2017: Amanda Taylor: Putting a Ding in the Universe: Art Curriculum Development for the SolarSPELL

Honors (Non-Thesis) Research Projects/Contracts

Fall 2020: Karla Cosio; Ashley Tse
Fall 2019, Spring 2020: Trevor Marske
Fall 2016: Arizona Baskin, Cynthia Weiringa

California Polytechnic State University Advising

Senior Projects

2016: Ginger Jacobs: Incorporating context into Project-Based, Interdisciplinary, International Service Learning Courses
2015: Kevin Schettler: The societal effects of copyright protection for distribution, publishing, and profit

Liberal Arts and Engineering Studies (LAES) Projects

2016: Christopher Carroux & Bhaumik Kotecha: Improving the Back-end and User Interface on the SolarSPELL website
2015: Kevin Gong: Evaluating in-field feedback on SolarSPELL

Illinois Institute of Technology Advising

Summer Research Interns

2014: Cara Karter: Climate Change in the Pacific: Creation and Implementation of a Needs Assessment and Baseline Survey in Chuuk, FSM
2012: Simon Brauer: Documenting and assessing the IIT Empowering Haiti project and discussing the implications for Information and Communication Technologies for Development (ICT4D).

External Advising

Stockholm University

PhD Examinations: Elly Gamukama, Stockholm University Department of Computer Science (Analytical Modeling of Internet Provision and Usage in Context of Development through a Utility Based Framework), 2015

PROFESSIONAL ASSOCIATION MEMBERSHIPS

IEEE Senior Member	2019-present
IEEE Member	2009-2019
IEEE Society on the Social Implications of Technology	2016-present
Internet Society (ISOC)	2009-present
Pacific Telecommunications Council (PTC)	2010-2017
Academy of Management	2007-2009
American Political Science Association (APSA)	2008-2014
International Studies Association (ISA)	2006-2014
Society for the Social Studies of Science (4S)	2015-2016

LANGUAGES/OTHER TRAINING

English (primary language), French (proficient), Dutch (proficient), Italian (intermediate)
Statistical Software: SPSS

TEACHING & RESEARCH INTERESTS

Information and Communications Technology (ICT); International Development; ICT4D; Experiential Learning; Innovation and Entrepreneurship; Team-Based, Project-Based Learning; Quality of Life; Public Policy; Natural Resources / Environment; Renewable Energy/Solar Energy; Public-Private Partnerships; Technology in Education; Telecommunications; International Relations; International Political Economy

DIGITAL DOCUMENTATION OF PROJECTS AND RELATED WORK

SolarSPELL Solar Digital Library All-in-one Kit Project website: <http://solarspell.org/>
Example of library's entirely open-access content can be found at: <http://pacificschoolserver.org/>

ICT4D Views from the Field. Personal research blog to capture, record, and share the author's experiences and thoughts regarding information and communications technology (ICT) being used for development purposes (ICT4D) around the world. Available at: <http://ict4dviewsfromthefield.wordpress.com/>

TED: Ideas worth Spreading: Technology for Development: No Shortcuts. TEDxIIT talk by Laura Hosman, March 22, 2011. Available at: <http://www.youtube.com/watch?v=FkTxUA0bCl0>

SolarCubed: Project comprising Solar-Computer-Lab-in-a-Box, Teacher Training Syllabus, and Offline Educational Content Server. Project website. Available at: <http://www.solarcubed.org/>

PISCES Project: Pacific Island Schools Connectivity, Education, and Solar Project. Project website. Available at: <http://www.piscespacific.org>

MEDIA COVERAGE & RELATED PUBLIC COMMUNICATIONS

- Versatilist*: Podcast featuring interview on background and story of SolarSPELL. August 16, 2020. Available at: https://www.podomatic.com/podcasts/versatilist/episodes/2020-08-16T12_24_17-07_00
- ASU Now*: ASU, Peace Corps agreement to expand SolarSPELL Learning platform's reach. July 10, 2020. Available at: <https://asunow.asu.edu/20200710-global-engagement-asu-peace-corps-agreement-expand-solarspell-learning-platforms-reach>
- The State Press*: SolarSPELL will bring educational content to a South Sudanese nursing school. April 16, 2020. Available at: <https://www.statepress.com/article/2020/04/spbiztech-solarspell-bringing-educational-content-to-south-sudanese-nursing-school>
- The State Press*: ASU to help refugees using SolarSPELL technology in Ethiopia. Feb 6, 2020. Available at: <https://www.statepress.com/article/2020/02/spbiztech-asu-to-host-community-education-alongside-humanitarian-support-in-ethiopia>
- ASU Now*: ASU professor's solar-powered library is transforming global education. July 25, 2019. Available at: <https://asunow.asu.edu/2019072-global-engagement-asu-professors-solar-powered-library-transforming-global-education>
- ASU Now*: Refugees in Uganda learn agribusiness through online initiative. June 6, 2019. Available at: <https://asunow.asu.edu/20190605-global-engagement-refugees-uganda-learning-agribusiness-through-online-initiative>
- ASU Now*: ASU students developing off-grid tech to help small farms build resilience to climate change. March 18, 2019. Available at: <https://asunow.asu.edu/20190318-solutions-asu-students-develop-off-grid-tech-help-small-farms-build-resilience-climate-change>
- ThinkTech Hawaii*: Interviewed for live broadcast on Community Matters show about SolarSPELL in the Pacific. March 8, 2019. Available at: <https://thinktechhawaii.com/solarspell-in-the-pacificcommunity-matters/>
- Acccrn.net*: Learning Climate Change through a Solar Powered Library. Jan 18, 2018. Available at <https://www.acccrn.net/blog/learning-climate-change-through-solar-powered-library>
- Phoenix Business Journal*: ASU project puts educational learning libraries where internet is scarce. Sep 17, 2017. Available at <https://www.bizjournals.com/phoenix/news/2017/09/17/asu-project-puts-educational-learning-libraries-in.html#i2>
- ASU Now*: ASU Professor Wins PLuS Alliance Prize for SolarSPELL Innovation. Sep 3, 2017. Available at <https://asunow.asu.edu/20170903-global-engagement-asu-professor-wins-plus-alliance-prize-solarspell-innovation>
- ABC15 Arizona News*: Solar Powered Digital Libraries Developed at ASU Being Used Worldwide. Aug 7, 2017. Available at <http://www.abc15.com/news/region-southeast-valley/tempe/solar-powered-digital-libraries-developed-at-asu-being-used-worldwide>
- SparkDialog* Podcast: Educational Hotspots for Children of the Developing World. Featured Expert. Apr 11, 2017. Available at http://sparkdialog.com/educational_hotspots_developing_world/

Future Out Loud Podcast: SolarSPELL. Featured Expert. Feb 13, 2017. Available at <https://soundcloud.com/user-723097380>

ASU Now: ASU Delivers Digital Libraries to Tonga. Dec. 6, 2016. <https://asunow.asu.edu/20161206-asu-delivers-digital-libraries-tonga>

ASU Now: No Internet, No Power, No Problem: ASU solar library empowers schools abroad. Sept. 12, 2016. <https://asunow.asu.edu/20160912-global-engagement-no-internet-no-power-no-problem-asu-solar-library-empowers-schools-abroad>

The State Press: SolarSPELL team aims to spread education in developing countries. Sept. 18, 2016. Available at <http://www.statepress.com/article/2016/09/spscience-engineering-solarspell-asu-lab-digital-library>

Voice of America: Solar Powered Library Helps Remote Students. March 23, 2016. Available at <http://learningenglish.voanews.com/content/solar-powered-library-helps-remote-students/3240836.html>

BBC World Service Program *Click*: Gareth Mitchell interviews Laura Hosman about SolarSPELL Digital Libraries project for Vanuatu and Micronesia. July 7, 2015. <https://www.youtube.com/watch?v=a2zr2dQBISQ>

Voice of America. TECHtonics blog: Wi-Fi Solutions Fill Basic Gaps for Developing World. Interviewed for article, Nov 29, 2013. <http://blogs.voanews.com/techtonics/2013/11/29/wi-fi-solutions-fill-basic-gaps-for-developing-world/>

YouTube: Connecting the Chuuk Women's Council. Six-minute video highlighting the establishment of a computer lab at the Chuuk Women's Council to improve employment and communications opportunities for women across Chuuk State, FSM. Sep 28, 2013. <http://www.youtube.com/watch?v=g-o1KgES9W4>

SciDev.Net. East Africa: Focus On Private Sector - Making ICT Partnerships Work. Article based on interview, Aug 15, 2013. <http://allafrica.com/stories/201308150924.html?viewall=1>

Engineering for Change (E4C). Solar WiFi Links Micronesian Islands. News article, Sept 29, 2012. https://www.engineeringforchange.org/news/2012/09/29/solar_wifi_links_micronesian_islands.html

Renewable Energy World. Rural Island Power: Solar Computer Lab and Long-distance WiFi Installed at Remote School. Blog Post. August 31, 2012. Available at: <http://www.renewableenergyworld.com/rea/blog/post/2012/08/solar-computer-lab-in-a-box-and-solar-long-distance-wifi-set-up-at-rural-island-school-in-udot-chuuk-fsm>

Renewable Energy World. Workshop on Solar powered long-distance WiFi at University of Guam part of PISCES Project. Blog Post. August 19, 2012. Available at: <http://www.renewableenergyworld.com/rea/blog/post/2012/08/workshop-on-solar-powered-long-distance-wifi-at-university-of-guam-part-of-pisces-project>

Carnegie Council for Ethics in International Affairs. Technology for Development: Why Training Trumps Technology. Article, Invited Post, August 13, 2012. Available at: http://www.carnegiecouncil.org/publications/ethics_online/0072.html

Pacific News Center / ABC7 Guam News. PISCES Project Provides Solar Powered WiFi to Remote Islands. Video. Posted August 2, 2012. Available at: http://pacificnewscenter.com/index.php?option=com_content&view=article&id=26021:video-pisces-project-provides-solar-powered-wifi-to-remote-islands&catid=45:guam-news&Itemid=156

The Institute: The IEEE News Source: Keeping Laptops Alive in Haiti: IEEE member and her students help build a solar-powered charging station. Article, April 20, 2012. Available at: <http://theinstitute.ieee.org/benefits/humanitarian-efforts/keeping-laptops-alive-in-haiti>

The Institute: The IEEE News Source. A Well-Planted Seed: IEEE Foundation grant enables technology for development project to grow. Article, Invited post, April 20, 2012. Available at: <http://theinstitute.ieee.org/ieee-roundup/opinions/ieee-roundup/a-wellplanted-seed>

Molex Innovators Series: a Molex-sponsored and produced video series that follows college students and companies that are improving the world through technological innovations.

Episode 1: IIT Empowering Haiti. Feb 27 2012. Available at <http://www.youtube.com/watch?v=4aUCP8379XY>

Episode 2: IIT Empowering Haiti II. Published Mar 14, 2012. Available at http://www.youtube.com/watch?v=7t_-m6mNS8M

Episode 3: IIT Bringing the Internet. Published March 26, 2012. Available at <http://www.youtube.com/watch?v=vFLtTukUKK4>

Boulder Daily Camera: CU-Boulder students to get involved with Solar-Powered Wi-Fi Project in Haiti. Article, September 24, 2011. Available at: http://www.dailycamera.com/cu-news/ci_18970081

Chicago Tribune: IIT students power up children's laptops in Haiti. Article, September 14, 2011: Available at: <http://www.chicagotribune.com/news/local/ct-x-c-iit-haiti-project-0914-20110914,0,7691828,full.story>

Youtube: Two-minute brief video overview of Solar Powering Installation in Lascahobas, Haiti, August, 2011: <http://www.youtube.com/watch?v=jJCo7cGOkV0>

Youtube: Twelve-minute video explaining all major aspects of Solar Powering Installation in Lascahobas, Haiti, August, 2011: <http://www.youtube.com/watch?v=hrQSjS9GYg0>

Chicago Tribune: IIT class designing solar chargers for Haiti's schools. Article, April 13, 2011: Available at: http://articles.chicagotribune.com/2011-04-13/news/ct-x-c-iit-helps-haiti-20110413_1_laptops-iit-class-electricity

Engineering for Change: A plan in need of a donor: Solar laptop charging stations for Haitian schools. (E4C) article, April 1, 2011: Available at: https://www.engineeringforchange.org/news/2011/04/01/a_plan_in_need_of_a_donor_solar_laptop_charging_stations_for_haitian_schools.html