

Aaron Redman

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I. EDUCATION

- PhD** Sustainability, Arizona State University, Arizona, 2020
Assessing the Development of Key Competencies in Sustainability ([link](#))
- MS** Sustainability, Arizona State University, Arizona, 2010
Transitioning Towards Sustainable Cooking Systems: with a case study of improved cookstoves in rural El Salvador ([link](#))
- BA** Environmental Policy Studies and Astronomy/Physics, Rice University, Texas, 2005 Graduated
Cum Laude

II. WORK EXPERIENCE

Arizona State University (ASU)

Instructor for the School of Sustainability

August 2020- Present

Teach online undergraduate sustainability courses which have included *Systems Thinking, Future Thinking and Strategies, Introduction to Sustainability, and Economics of Sustainability*.

Sustainability Consultant

September 2015 – Present

- On call consultant for Overseas Strategic Consulting, Ltd (<http://www.oscltd.com/>) supporting multi-million-dollar proposals to USAID missions in Liberia, Senegal, Jordan, Nigeria, Honduras, and the DRC. This has included proposal writing, background research, graphic design, and most significantly recruitment of host-country personnel. Also provides data analysis and reporting writing such as on a rapid response impact of COVID study on farmers in Nepal, an educational intervention in Nigeria, and a survey of school directors in Djibouti. (2020 -- Present) Ryan Crow rcrow@oscltd.com
- Hired by UNESCO ED/IPS/ESG to conduct a study on the production of an ESD assessment tool which included a collection of existing ESD assessment practices and tools and an analytical summary of them and their potential to be used to assess SDG 4.7. (2018) Hoda Jaberian h.jaberian@unesco.org
- Designed and ran multi-day trainings on sustainability competencies for faculty from Ghana's KNUST university. (2017 and 2018) Ryan Johnson Ryan.M.Johnson@asu.edu
- Managed a pilot investigation into the feasibility of using the UN's Sustainable Development Goals for corporate reporting in the ICT sector. Beyond research, conceptual thinking and writing, I was also responsible for overseeing three temporary hires. (2016) Rajesh Buch rbuch@asu.edu
<https://sustainability.asu.edu/sustainabilitysolutions/programs/solutionservices/mapping-ict-to-sdg/>
- Subcontracted to research and design a robust survey instrument for a large corporate client of Kutter consulting. (2015) Robert Kutter robert@kutterconsulting.com

Leuphana University

Doctoral Research Associate; Educating Future Change Agents (EFCA) project

September 2016-June 2020

One of two research associates who oversaw the EFCA research team of six PhD students and coordinated with three principal investigators, across two continents. Beyond logistical management, I was responsible for ensuring the development of a coherent methodological framework across the project and ultimately integrating the finding to generate general insights.

Supervisors: Matthias Barth matthias.barth@leuphana.de and Arnim Wiek arnim.wiek@asu.edu

Arizona State University (ASU)

Faculty Associate for the School of Sustainability

Fall 2017 & Fall 2018

Taught *Society and Sustainability* (SOS 320), a required upper level course for Sustainability majors. I implemented a variety of non-traditional pedagogies, in particular collaborating with the city of Tempe in real world projects based on adapting to extreme heat.

Universidad Nacional Autónoma de México (UNAM)

Full-time Tenure-Eligible Professor and Co-Director of the Department of Sustainability

June 2012 – December 2014 | León, Guanajuato, Mexico

- *Project Management:* Successfully implemented a \$300,000 peso research project as well as overseeing the Sustainability department.
- *Proposal Writing:* In Spanish wrote various grant proposals (one funded) as well as a proposal for a Sustainability Science undergraduate degree program and the design of a Sustainability Center.
- *Research:* Conducted independent and collaborative research on household waste management, climate change, improved cookstoves and educational pedagogy
- *Teaching:* Taught 'Culture, Society and the Environment,' 'Socio-Ecological Systems,' 'Environmental Economics,' 'Systems for Environmental Improvement' and 'Sustainable Development' including students of 5 different degree programs and mentored two student thesis.
- *Website Management:* Built and wrote the content for a website section on the Sustainability Department as well as writing bi-weekly articles on Sustainability.

FAVE Bags LLC

President and Co-founder

December 2010 — December 2015 | Tempe, Arizona

With two partners founded a company which produced a re-usable produce bag called, *FAVE Bags* with an innovative production system which has enabled over 20 poor rural women in El Salvador to work out of their homes earning money to support their families. For more information: <http://favebags.com/>

Arizona State University (ASU)

Various Positions

June 2009 – June 2012 | Tempe, Arizona

- Program Coordinator for SustainabilityConnect (July 2011- June 2012): Collaborated with staff, faculty and community members to develop and implement a platform which created an applied learning environment for ASU students to work on real-world sustainability projects <https://sustainabilityconnect.asu.edu/>
- Program Coordinator for a USAID Partnership Grant (November 2010- June 2012): Coordinated administrative work as well as activities for a US Agency for International Development grant to ASU

- Research Analyst at the Center for Sustainable Health, Biodesign Institute (August 2011-March 2012): Consulted on a hybrid-online Introduction to Sustainability course for education majors
- Program Coordinator Sustainable Development Working Group (June 2011-March 2012): Conducted background research, completed extensive interviews with faculty and synthesized the work and findings of a group of faculty seeking to find an innovative research path for international development at ASU.
- Faculty Associate for the School of Sustainability (June 2010 -July 2011): Crafted curriculum and taught *International Development and Sustainability* for the summer and fall semesters of 2010 and summer semester of 2011
- Project Leader Campus Composting (August 2010-May 2011): In partnership with the Office of University Sustainability Practices developed a campus food-waste composting system. After managing 3 undergraduate students in fall of 2010, this effort blossomed into a full workshop of 22 undergraduate and graduate students whose efforts I coordinated as the lead instructor for the spring 2011 term https://asunews.asu.edu/20110428_SustainabilityOrganicWasteAudit

Peace Corps

Volunteer in Agroforestry and Environmental Education

September 2005 — November 2007 | *Cantón La Comunidad, La Paz, El Salvador*

- Assisted the local development council (ADESCO) in restructuring, strategic planning and becoming more transparent and economically sustainable.
- Implemented an improved stove project for 26 families in coordination with the international NGO, *Trees, Water, People* to improve health, reduce expenses and prevent deforestation.
- Conceived and wrote up a proposal to improve the facilities at a local water source which 150 local residents depend upon, raising \$3,000 through a *Peace Corps Partnership* grant later implementing and administering the project
- Initiated a computer project to purchase 11 second hand computers and construct a lab, facilitating the collaboration of the school, municipal government and parents to fund the effort. Exported this model to three other nearby schools which received a total of 35 computers to serve 600 more students.
- Devised a recycling campaign for the local school, the model of which was used to launch a municipal-wide recycling campaign in coordination with the local government among all 12 schools collecting over 3,300 lbs of plastic bottles for recycling.

III. PUBLICATIONS

Peer-Reviewed:

Published

- Redman, A., Wiek, A., & Barth, M. (2021). Current Practice of Assessing Students' Sustainability Competencies – A Review of Tools. *Sustainability Science*. 16, 117-135 <https://doi.org/10.1007/s11625-020-00855-1>
- Birdman, J., Redman, A., & Lang, D. J. (2021). Pushing the Boundaries: Experience-Based Learning in Early Phases of Graduate Sustainability Curricula. *International Journal of Sustainability in Higher Education*. 22(1), 237-253 <https://doi.org/10.1108/IJSHE-08-2019-0242>
- Brandt, J.-O., Bürgener, L., Barth, M., & Redman, A. (2019). Becoming a competent teacher in education for sustainable development. *International Journal of Sustainability in Higher Education*. 20(4), 630-653 <https://doi.org/10.1108/IJSHE-10-2018-0183>
- Redman, A. (2018). Harnessing the Sustainable Development Goals for businesses: A progressive framework for action. *Business Strategy & Development*. 1(4), 230–243. <https://doi.org/10.1002/bsd2.33>

Redman, E., Wiek, A., & Redman, A. (2018). Continuing Professional Development in Sustainability Education for K-12 Teachers: Principles, Programme, Applications, Outlook. *Journal of Education for Sustainable Development*, 12(1), 59–80. <https://doi.org/10.1177/2455133318777182>

Redman, A., & Redman, E. (2017). Is Subjective Knowledge the Key to Fostering Sustainable Behavior? Mixed Evidence from an Education Intervention in Mexico. *Education Sciences*.
<http://doi.org/10.3390/educsci7010004>

Redman, E. & Redman A. (2014). Transforming sustainable food and waste behaviors by realigning domains of knowledge in our education system. *Journal of Cleaner Production*, Vol. 64, Issue 1, Pgs. 147-157. ISSN 0959-6526, <http://dx.doi.org/10.1016/j.jclepro.2013.09.016>

Under Review

Redman, A., & Wiek, A. Competencies for advancing transformations towards sustainability. *Sustainability Science*

Redman, A., Rowe, D., Brundiers, K., & Brock, A. What Motivates Students to be Sustainability Change Agents and Supports Their Resilience in the Face of Adversity? *Sustainability: The Journal of Record*

IV. GRANTS & AWARDS

Australia-Germany Joint Research Co-operation Scheme (2017-2019)

Sustainability Graduate Attributes Assessment

This research project supported an international collaboration between scholars of Australia's Royal Melbourne Institute of Technology (RMIT) and Leuphana University of Germany. As part of the exchange I traveled to RMIT where I collaborated with faculty there to continue ongoing research in sustainability competency (attribute) assessment as well as initiate new research ventures.

Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (PAPIIT) (2014)

Entender las motivaciones para las conductas de los residentes de León, Guanajuato, México en el manejo de sus residuos para poder impulsar conductas más sostenibles

This research project (proposed and implemented in Spanish) is examining the behaviors and attitudes related to trash management of households in Leon, Guanajuato in order to develop strategies and interventions which promote more sustainable waste behaviors.

V. OTHER RELEVANT ACTIVITIES

San Pedro Nonualco Scholarship Program

Director US Operations (2008- Present)

After helping to establish a scholarship program for rural El Salvadoran students to attend university, I returned to the US and built a donor network to support the Scholarships. Activities have included, maintaining a website, contacting donors, writing newsletters, translating Spanish and coordinating fundraising efforts each year. In total we have raised over \$100,000 and supported more than a dozen university students be the first in their families to pursue their educational dreams.

City of Tempe Sustainability Commission

Commissioner (October 2015- December 2016)

Selected from a large pool of candidates to be a founding member of Tempe's Sustainability Commission, whose task it is to advice the city council on current and future Sustainability initiatives.

Conference Presentations

AASHE (2020) Association for the Advancement of Sustainability in Higher Education Conference presented *What Motivates Change Agents and Supports Their Resilience in the Face of Adversity?*, *Competencies for Advancing Transformations Towards Sustainability and their Assessment*, *Linking Teaching and Learning Formats with Students' Development of Key Sustainability Competencies*, and *Current Practice of Assessing Students' Sustainability Competencies*.

ECER (2019) European Conference on Education Research, organized the symposium: *Assessing Key Competencies In Higher Education For Sustainable Development: Insights From The Deployment Of Innovative Instruments*.

COPERNICUS Alliance Conference (2019): Created and facilitated a co-creation lab called *Generating Transferable, Evidence-based Approaches to Transformative Teaching for HESD*

Fritz Sessions (2019) Ran an information fair following up on the keynote address by Jonas Rockstrom

UAS Spring Campus (2019) Presented *Linking teaching and learning formats with student development of key sustainability competencies*

Education for Sustainability (2018) Ran workshops as part of the fourth annual conference for K-12 teachers in Bogota, Columbia

WEEC (2017) 9th World Environmental Education Congress presented *Towards the Robust Assessment of Learning Outcomes in ESD*

ECER (2017) European Conference on Education Research presented *Assessing the Key Competencies for Sustainability*

AASHE (2014) Association for the Advancement of Sustainability in Higher Education Conference presented *Integrating Sustainability Education into Universities and Building Community Partnerships to Promote Sustainable Waste Practices*

Indoor Air (2011) The paper *Stove Stacking: the integration of the Justa cookstove in one rural El Salvadoran community* was accepted for publication in the conference proceedings.

ETHOS Conference (2011) Presented *Transitioning Towards Sustainable Cooking Systems: with a case study of improved cookstoves in rural El Salvador*.

VI. SKILLS

Spanish

High level verbal fluency, advanced writing and reading including the ability to give presentations, run workshops, teach classes and write proposals in Spanish.

Websites

Basic HTML knowledge and intermediate knowledge of Wordpress with extensive and varied experience managing different types of websites.

Data

Able to design and implement surveys and interviews in-person, written or via the internet. Can collect, organize and clean-up datasets. Understanding of statistical and other analytical tools including intermediate experience with SPSS and R. Use reference managers.
