

Suzanne Kawamleh

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Education

- Ph.D. Indiana University (2022, expected)
“In Models We Trust: The Epistemology and Ethics of Computational Science”
Dissertation Chairs: Elisabeth Lloyd & Gary Ebbs
Committee Members: Jutta Schickore, Kirk Ludwig, Greg Lusk
- MA Department of Philosophy, Indiana University (2017)
Department of History & Philosophy of Science & Medicine (2017)
- BA (Hon) Philosophy, Chemistry, Valparaiso University (2014)

Research Areas

AOS: History and Philosophy of Science, Epistemology and Ethics of Data Science, Environmental Philosophy, Scientific Modeling

AOC: Logic, Ethics, History and Philosophy of Technology, Skepticism

Publications

Journal Articles

- 2021 “Can machines learn how clouds work? The Epistemic Implications of Machine Learning Methods in Climate Science.” *Philosophy of Science* (accepted July 2020)
- Under Review “In Models We Trust: An Account of Climate Model Credibility.” *Synthese* (R&R)

Public Scholarship

- 2021 “Comprehensive Climate Action Plan”, Department of Sustainability and Environmental Affairs, City of Gary, IN, August 1st
- 2020 “In Models We Trust: Climate Models and Their Evaluation,” Community Colloquium, Valparaiso University, Valparaiso IN, January 23rd
- 2018 “Rebuilding Campus: The promise of higher education in war-torn Syria,” TED*ValparaisoUniversity, Valparaiso IN, January 19th
- 2017 *The Daily Ant, Philosophy Phridays: Ants & NGOs*
<https://dailyant.com/2017/08/04/philosophy-phriday-ants-and-ngos/>

Fellowships, Grants, and Awards

- 2020-2021 James M. and Anthony J. Moss Dissertation Fellowship (\$17,000)

- 2020 Oscar Ewing Essay Prize
- 2019- 2020 Herman B. Wells Graduate Fellowship (\$42,000)
The fellowship is awarded each year to one student who demonstrates the qualities for which Chancellor Wells was renowned: leadership abilities, academic excellence, character, social consciousness, and generosity of spirit. The Wells Fellowship is the University's most prestigious academic award.
- 2017-2018 John H. Edwards Fellowship (\$25,000)
The fellowship is awarded to a student with an extraordinary record of voluntary public service, exemplary character, superior scholastic ability, and intellectual capacity that promises dividends for society. The John H. Edwards Fellowship is one of the University's most prestigious academic awards.
- 2017-2018 Clark Outstanding Associate Instructor Award
The Bo and Lynn Clark Outstanding AI award is based on faculty nominations, student evaluations, and classroom observations. The award is intended to recognize outstanding contributions to the department's teaching mission by an Associate Instructor.
- 2014-Present Phi Beta Kappa, National Academic Honor Society
- 2013 John & Dorothea Helms Endowed Scholarship (Latin), Greek and Roman Studies Program, Valparaiso University
- 2010-2014 Presidential Scholar, Academic Excellence Scholarship (\$80,000), Valparaiso University
Largest merit-based scholarship for students demonstrating exceptional high school achievement.

Research Skills

- 2021 Richard Rufus Project
I use Python programs to prepare the rediscovered latin manuscripts of medieval philosopher, Richard Rufus, for latent semantic analysis. This includes cleaning, stripping, and lemmatizing the files (reducing declined/ conjugated latin words to their roots, or lemmas) as well as building a dictionary of terms and their respective lemmas, or roots. Our goal is to be able to use mathematical analysis to determine which passages have the most shared vocabulary and thus facilitate the discovery of parallel text across different manuscripts.

Teaching Experience, International Development, & Pedagogy

Teaching Experience

Indiana University, Instructor of Record

- 2021 Philosophy, Literature and Climate Change (Fall)
 2021 Applied Ethics (Summer)
 2018 Business & Morality (Fall)

Butler University, Instructor of Record

- 2019 Principles of Reasoning, 2 sections (Spring)

Indiana University, Associate Instructor

2017	Introduction to Ethics (Spring)
2016	Elementary Logic (Fall)
2016	Introduction to Philosophy (Spring)
2015	Critical Thinking (Fall)

Pedagogy

Indiana University's Center for Innovative Teaching and Learning (CITL) has designed the Graduate Teaching Apprenticeship Program in Higher Education (GTAP). The following courses were completed through CITL pursuant of GTAP certification. The aim of this program is to expand pedagogical knowledge, skill, and leadership.

2020	Why aren't they talking? How to Lead an Effective Analysis-based Discussion, August 28 th
2020	Cultivating Active Learning Environments in On-Campus and Online Classrooms, August 26 th
2020	Teaching in an American Classroom, August 20 th
2020	Identity, Boundaries, and Empathy in the Classroom, August 19 th
2020	A Short Course in Lesson Design: Overcoming Student Learning Bottlenecks, July 13 th -29 th
2020	Decolonizing the Curricula: Revolutionizing our Syllabi and Classrooms, July 7 th
2020	Creating Writing Assignments that Encourage Students to Produce Their Best Work, May 1 st
2018	Excellence in Teaching, August 7 th -14 th

International Development in Higher Education

2015-Present	Education Program Director, Promise for Relief and Human Development (PRHD)
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As Educational Program Director for PRHD, I work to provide higher educational opportunities to internally displaced populations and to establish sustainable institutions of higher education in various provinces of war-torn Syria.

Grants

2018	I proposed and secured a grant from the Syrian-American Engineers Association to establish an electrical engineering laboratory for our students in Nawa, Daraa. This laboratory provides engineering students with the facilities and supplies to carry out experiments, prepare sketches, and test different designs.
2016	I secured a grant from and partnered with Valparaiso University and Syrian American Medical Society to establish Hope Underground, a 2-year Medical Training Institute in Ghouta, Syria that equips

students with the scientific and technical skills to address the shortage of medical personnel in local field hospitals and clinics.

Mentorship

2017-Current I mentored 25 Syrian students through the application process and coursework at the accredited nonprofit online university, University of the People.

Leadership

2017 I served as the PRHD representative and Higher Education Advocate at the American Forum for Syria Policy in Washington DC.

2017 I served as the Higher education representative for Free Syria Political Action Committee. In that role, I acted as a liaison between 15+ US non-profit organizations and the Qatar Fund for Development.

2015-2017 I managed Promise College's curriculum development in accordance with the Syrian Ministry of Higher Education and in collaboration with the University of Aleppo.

2015-2017 I led and managed a diverse team of grassroots activists, philanthropists, higher education leaders, and community members to establish Promise College in southern Syrian which serves 1,836 students in a variety of disciplines

Visiting Appointments

2019 Visiting Scholar, Computational and Information Systems Laboratory (CISL), National Center for Atmospheric Research (Summer)

2019 Visiting Scholar, Philosophy and Physical Computing Workshop, Virginia Tech (Summer)

Conferences, Workshops and Presentations

2021 "*Can machines learn clouds?* The Epistemic Implications of Machine Learning Methods in Climate Science," The 27th Biennial Meeting of the Philosophy of Science Association, Omaha NE, July 19th

2021 "The (Climate) Data Revolution: How Machine Learning Methods Impact Climate Model Uncertainty Assessment," PSX6: Philosophy of Scientific Experimentation 6 (September 25th 2020, postponed)

2020 "Can Machines Learn Convection? The epistemic implications of machine-learning parameterizations in climate science," Data Science in Climate and Climate Impact Research: Conceptual Issues, Challenges, and Opportunities, August 20th

- 2020 “Comments on: Why and how explanations matter: connecting moral and technical dimensions of algorithmic decision-making,” Athena in Action: A Networking and Mentoring Workshop for Graduate Women in Philosophy, June 17th
- 2020 “In Models We Trust: An Account of Climate Model Credibility,” Canadian Society for the History and Philosophy of Science (cancelled), May 30th
- 2020 “Comments on: Virtues, Values, and Counterfactuals in Science,” American Philosophical Association, Chicago, IL, February 28th
- 2019 “Interpreting Multi-Model Agreement for Uncertainty Interpretation,” American Geophysical Union, San Francisco, CA, December 13th
- 2019 “Credibility & Confidence in Climate Science,” Indiana University HPSC&M Women’s Leadership Conference, Bloomington IN, October 26th
- 2017 Invited Talk: “Islamic Hadith: Epistemology & the Quest for Authenticity,” Hope College, Philosophy Department Symposium, Holland MI, November 16th
- 2017 Invited Talk: “Grassroots Model of Higher Education in Syria”, Syrian American Medical Society 4th Annual Symposium, NYC New York, October 7th
- 2013 “*Who Would Jesus Kill?* Just War Theory in the Christian Tradition” National Conference on Undergraduate Research, Lacrosse, WI, April 12th

Professional Memberships

- 2017-Present Philosophy of Science Association
 2017-Present American Philosophical Association
 2019-Present American Geophysical Union

Languages

- English (Native)
 Arabic (Native)
 Ancient Greek (Working Proficiency)
 Latin (Working Proficiency)
 French (Limited Working Proficiency)