

Saleh Afroogh, Ph.D. Candidate

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in Saleh Afroosh

🌐 <https://salehafroogh.github.io/>

EDUCATION

- 2019 – Present 📖 **Ph.D. Candidate, The State University of New York at Albany**
Doctor of Philosophy in AI Ethics
Dissertation Title: *Toward a Trustworthy and Responsible Artificial Intelligence*
Advisors: Jason D'Cruz, Bradley Armour-Garb, Kush Raj Varshny, Ron McClamrock
- 2022 – Present 📖 **M.Sc. Data Science, The University of Texas at Austin**
Specialization: *Data Analysis, Machine Learning, Statistical Theory*
- 2016 – 2018 📖 **M.A. Analytic Philosophy, Texas A&M University**
Dissertation Title: *Contextual Reason and Rationality*
Advisors: Kenny Easwaran, Martin Peterson, Mahdi Mohseni, Theodore George
- 2005 – 2010 📖 **B.A./J.D. Law and Jurisprudence School, Iran**
Jurisprudence Doctorate (eqvl.)

Certification

- 2022 📖 **IBM Professional Certificate.** Python for Data Science, AI & Development
- 📖 **Imperial College London.** Mathematics for Machine Learning Specialization

HONORS & AWARDS (SELECTED)

- 2022 – Present 📖 **Trusted AI Grant** (\$200,000)
SUNY-IBM AI Research Alliance: Awarded to selected scholars who address trustworthiness in dynamic, autonomous AI systems (Co-I with Jason D'Cruz)
- 2020 – 2021 📖 **Responsible AI in Disaster Management Scholarship** (\$12,000)
UrbanResilience.AL Lab at Texas A&M University.
- 2019 📖 **Empathy in Engineering Research Grant** (\$3,000)
UrbanResilience.AL Lab at Texas A&M University.

RESEARCH & WORK EXPERIENCE

SUNY-IBM AI Research Alliance (SUNY ALBANY)

- 2021–Present 📖 **Co-Investigator:** Trustworthy-AI from a User Perspective
- Developed a probabilistic theory of trust, accounting for four major types of AI-trust.
 - Analyzed a semantic distinction between transitive and intransitive senses of trust.

UrbanResilience.AL Lab (Texas A&M University)

- 2019–2021 📖 **Research Fellow:** Responsible AI; Empathic Design; CTA ethics in COVID-19 era
- Analyzed major ethical metrics and considerations regarding AI application in disaster management - including fairness, equality, impartiality, or neutrality.
 - Designed and implemented Empathic Design in engineering education and practice.
 - Conducted an interdisciplinary research group of scholars from different fields of science and humanity on the ethical considerations of the use of Contact Tracing App technology in COVID-19 era; Published research findings in an interdisciplinary journal.

• The Computation and Language Lab (University of California, Berkeley)

- 2018 📖 **Visiting Research Assistant:** Numerical Cognition
- Participated in Tsimane' Bootcamp on numerical development, and weekly seminars on language, cognition, and culture.

RESEARCH & WORK EXPERIENCE (continued)

• Department of Educational and Human Resource Development (Texas A&M University)







- **Research Fellow:** Morsel Sensitive Human Resource development
 - Designed and implemented a conceptual model to improve moral sensitivity in human resource development (HRD); published in an interdisciplinary journal.

Department of Philosophy (Texas A&M University)

- 2016–2018
- **Research Assistant:** Contextualist decision theory
 - Developed contextual normative theory of rational choice; published research findings in a philosophical journal.

PUBLICATIONS

Journal Articles

- 1 **Afroogh, Saleh**, A. Mostafavi, A. Akbari, *et al.*, “Embedded ethics for responsible artificial intelligence systems (EE-RAIS): A conceptual model and its deployment for disaster management,” *AI and Ethics* (Revised and resubmitted),
- 2 **Afroogh, Saleh**, “A probabilistic theory of trust concerning artificial intelligence: Can intelligent robots trust humans?” *AI and Ethics*, Jun. 2022, ISSN: 2730-5961.  DOI: 10.1007/s43681-022-00174-4.
- 3 **Afroogh, Saleh**, “The mirage of motivation reason internalism,” *The Journal of Value Inquiry*, Jan. 2022, ISSN: 1573-0492.  DOI: 10.1007/s10790-021-09871-5.
- 4 **Afroogh, Saleh**, A. Esmalian, A. Mostafavi, *et al.*, “Tracing app technology: An ethical review in the covid-19 era and directions for post-covid-19,” *Ethics and Information Technology*, vol. 24, no. 3, p. 30, Jul. 2022, ISSN: 1572-8439.  DOI: 10.1007/s10676-022-09659-6.
- 5 **Afroogh, Saleh**, A. Esmalian, J. P. Donaldson, and A. Mostafavi, “Empathic design in engineering education and practice: An approach for achieving inclusive and effective community resilience,” *Sustainability*, vol. 13, no. 7, p. 4060, 2021.  DOI: <https://doi.org/10.3390/su13074060>.
- 6 **Afroogh, Saleh**, A. Kazemi, and A. Seyedkazemi, “Covid-19, scarce resources and priority ethics: Why should maximizers be more conservative?” *Ethics, Medicine and Public Health*, vol. 18, p. 100 698, 2021, ISSN: 2352-5525.  DOI: <https://doi.org/10.1016/j.jemep.2021.100698>.
- 7 **Afroogh, Saleh**, S. A. Kazemi, and F. Hajhosseini, “Moral sensitive human resource development: A conceptual model and its implementation,” *International Journal of Business and Management*, vol. 16, no. 6, 2021.  DOI: 10.5539/ijbm.v16n6p1.

TEACHING & ACADEMIC SERVICES

The State University of New York at Albany

- 2022 ■ **Lecturer** : PHI 210 Symbolic Logic
- 2021 ■ **Teaching assistant** : PHI 230 Morals and Society

Texas A&M University

- 2016 – 2018 ■ **Lecturer** : PHIL 341 Symbolic Logic
- 2016 ■ **lecturer** : PHIL 482 ENGR 482 Ethics and Engineering

Journal Referee

- 2018 – Present ■ **Referee of the following journals** : Journal of value inquiry, AI and Ethics, and IJBM

PROFESSIONAL SPECIALIZATION & COMPETENCE

Theories and Science:

- AI Ethics, AI Moral Reasoning, Data Ethics, Data Analysis, Moral Theories, Trust Theories, Engineering Ethics, Medical Ethics, Fairness Theories, Mind-Body Theories, Decision Theories, Rational Choice Theory, Mathematical Logic, and Semantics

Societal Challenge:

- Responsible AI, Fairness in AI, Privacy & Accountability in AI, Human-centered & Justice-oriented Design, Human-machine Interaction, Social Resilience & Sustainability, Disaster Risk Management, Triage Ethics, Climate Changes

Methods:

- Conceptual Analysis, Data Analysis, Psychological Analysis, Contextual Modeling, Case Study

LANGUAGES & SKILLS

Natural Languages: ■ English, Persian, Classical Arabic

Computer Languages: ■ Python, R, SQL, XML/XSL, \LaTeX

PROFESSIONAL DEVELOPMENT

- Member of American Philosophical Association (APA)
- Member of American Planning Association (APA)

References

- Jason D'Cruz: jdcruz@albany.edu
- Bradley Armour-Garb: barmour-garb@albany.edu
- Kush Raj Varshny: krvarshn@us.ibm.com
- Ron McClamrock: rmccclamrock@albany.edu
- Ali Mostafavi: amostafavi@civil.tamu.edu
- Mahdi Mohseni: mohseni.mi@gmail.com