

Bio

Dr. Davoud Mougouei is an expert in human-centered computing. He has led several international projects funded by reputable institutions such as Australian Academy of Science. His research on integrating human values in (AI) software has been published in top venues, as listed on his [Google Scholar](#) (H-index of 17).

Academic Appointments

- 2022–Present **Senior Lecturer**, School of IT, Deakin University.
- 2021–2022 **Lecturer**, School of Sciences, University of Southern Queensland.
- 2019–2021 **Lecturer**, School of Computing and IT, University of Wollongong.
- 2018–2019 **Postdoctoral Research Fellow**, Faculty of IT, Monash University.

Qualifications

- 2014–2018 **Ph.D. Software Engineering (IPRS Holder)**, Flinders University, Australia.
- 2011–2013 **M.Sc. Computer Science**, Universiti Putra Malaysia.
- 2003–2008 **B.Eng. Computer Engineering**, University of Kashan, Iran.

Research Interests

Human-centered computing; considering human values in (AI) software.

Grants/Awards (Selected)

- 2025–2026 **Co-Investigator**, 2026 Equity-First Students as Partners Microgrant project, Deakin University, “Neuroaffirmative Collaboration in IT & Engineering: Co-designing Inclusive Assessment for Diverse Communicators.”
- 2024–2025 **Chief Investigator**, SSN Incubator Grant, Deakin Science and Society Network, “An Evidence-Based Framework for Protecting Employee Mental Well-Being Against Adverse Effects of Generative AI in the Workplace.”
- 2021–2022 **Chief Investigator**, Regional Collaborations Programme, Australian Academy of Science, “Understanding Covid-19 Vaccine Hesitancy in Media.”
- 2021–2022 **Co-Investigator**, The CaneMAPPS project, Sugar Research Australia, “A Digital Platform for Sustainable Sugar Crop Management.”
- 2022 School Research Performance Award, School of Mathematics, Physics and Computing, University of Southern Queensland.
- 2020–2022 **Chief Investigator**, University Global Partnership Network Fund, UGPN, “The Emotional Impact of Covid-19 Coverage in Popular Media.”
- 2016 Elaine Martin Travel Grant, Flinders University, “A Mathematical Programming Approach to Considering Value Dependencies in Software Requirement Selection.”
- 2014–2018 International Postgraduate Research Scholarship, Flinders University, Australia.

Publications (Selected)

The full list of publications (H-index of 17) can be accessed from my [Google Scholar](#).

Conferences

- [A*] D. Mougouei, A. Azarnik, M. Fahmideh, E. Mougouei, H. K. Dam, A. A. Khan, S. Rafi, J. A. Khan, and A. Ahmad. A first look at ai trends in value-aligned software engineering publications: Human-Illm insights. In *2025 IEEE/ACM 47th International Conference on Software Engineering: Software Engineering in Society (ICSE-SEIS)*, pages 82–93. IEEE, 2025
- [A] D. Mougouei, A. Ghose, H. Dam, M. Fahmideh, and D. Powers. A fuzzy-based requirement selection method for considering value dependencies in software release planning. In *2021 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, pages 1–6. IEEE, 2021
- [A*] H. Perera, W. Hussain, J. Whittle, A. Nurwidyantoro, D. Mougouei, R. A. Shams, and G. Oliver. A study on the prevalence of human values in software engineering publications, 2015–2018. In *2020 IEEE/ACM 42nd International Conference on Software Engineering (ICSE)*, pages 409–420. IEEE, 2020
- [A] H. Perera, W. Hussain, D. Mougouei, R. A. Shams, A. Nurwidyantoro, and J. Whittle. Towards integrating human values into software: Mapping principles and rights of gdpr to values. In *2019 IEEE 27th International Requirements Engineering Conference (RE)*, pages 404–409. IEEE, 2019
- [A*] D. Mougouei, H. Perera, W. Hussain, R. Shams, and J. Whittle. Operationalizing human values in software: a research roadmap. In *Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, pages 780–784. ACM, 2018
- [A*] D. Mougouei. Factoring requirement dependencies in software requirement selection using graphs and integer programming. In *2016 31st IEEE/ACM International Conference on Automated Software Engineering (ASE)*, pages 884–887. IEEE, 2016

Journals

- [Q1] D. Mougouei, A. Haque, A. Nurwidyantoro, E. Mougouei, M. Fahmideh, M. Shahin, A. Dharmawan, T. W. Widodo, and H. K. Dam. Reasoning about human values in github issues: What can a large language model reveal? *International Journal of Human–Computer Interaction*, 0(0):1–29, 2026
- [Q1] D. Mougouei, S. Rafi, M. Fahmideh, E. Mougouei, J. A. Khan, H. K. Dam, A. Nurwidyantoro, and M. Chaudron. Venturing chatgpt’s lens to explore human values in software artifacts: a case study of mobile apis. *Behaviour & Information Technology*, pages 1–37, 2025
- [Q1] F. B. Oliveira, D. Mougouei, A. Haque, J. S. Sichman, H. K. Dam, S. Evans, A. Ghose, and M. P. Singh. Beyond fear and anger: A global analysis of emotional response to covid-19 news on twitter. *Online Social Networks and Media*, 36:100253, 2023
- [Q1] S. L. Evans, R. Jones, E. Alkan, J. S. Sichman, A. Haque, F. B. S. de Oliveira, and D. Mougouei. The emotional impact of covid-19 news reporting: A longitudinal study using natural language processing. *Human Behavior and Emerging Technologies*, 2023:7283166, Mar 2023
- [Q1] N. Kinchin and D. Mougouei. What Can Artificial Intelligence Do for Refugee Status Determination? A Proposal for Removing Subjective Fear. *International Journal of Refugee Law*, 11 2022
- [Q1] M. Fahmideh, J. Grundy, A. Ahmad, J. Shen, J. Yan, D. Mougouei, P. Wang, A. Ghose, A. Gunawardana, U. Aickelin, et al. Engineering blockchain-based software systems: Foundations, survey, and future directions. *ACM Computing Surveys*, 55(6):1–44, 2022
- [Q1] R. Jones, D. Mougouei, and S. L. Evans. Understanding the emotional response to covid-19 information in news and social media: A mental health perspective. *Human Behavior and Emerging Technologies*, 2021

Academic Responsibilities

Supervisor: 5 Ph.D. students (co-supervisor): 3 graduated, 2 ongoing.

Reviewer: IEEE Transactions on Software Engineering, Automated Software Engineering, IEEE Transactions on Fuzzy Systems, ACM Transactions on Internet Technology, Communications of the ACM, Artificial Intelligence Review, Behavior and Information Technology, International Journal of Human Computer Interaction, ...