

Delaram Golpayegani (she/her)

✉ delaramglp1@gmail.com | [in delaramglp](https://www.linkedin.com/in/delaramglp) | [G DelaramGlp](https://github.com/DelaramGlp) | 0000-0002-1208-186X 

Education

PhD in Computer Science

2020 – 2025

School of Computer Science and Statistics, Trinity College Dublin – Dublin, Ireland

- Thesis: *Semantic Frameworks to Support the EU AI Act's Risk Management and Documentation* 
- Marie Skłodowska-Curie fellowship

MSc in Information Technology, Enterprise Architecture

2013 - 2015

Shahid Beheshti University – Tehran, Iran

BSc in Computer Engineering, Software

2009 - 2013

Shahid Beheshti University – Tehran, Iran

Professional Experience

Research Fellow (Post-doctoral Researcher)

Jan 2025 – ongoing

ADAPT Centre, Trinity College Dublin – Dublin, Ireland

- **FORSEE**  (Jan 2025- ongoing)
 - Utilising topic modelling approaches from natural language processing (NLP) to uncover themes in AI policies and standards.
- **RECITALS**  (Sep 2025 - Dec 2025)
 - Developing semantic models and tools to facilitate compliance with multiple digital regulation

Research Assistant, Early Stage Researcher (ESR)

Oct 2020 – Dec 2024

ADAPT Centre, Trinity College Dublin – Dublin, Ireland

- Developed Semantic Web-based solutions for *AI risk management* and *AI documentation* based on the EU trustworthy AI guidelines, the AI Act, and international AI standards
- Collaborated with a multidisciplinary group, consisting of digital ethicists, legal scholars, and computer scientists, within EU Horizon 2020 PROTECT ITN network

Visiting Scientist

Sep 2023 - Oct 2023

Joint Research Centre (JRC), European Commission – Ispra, Italy

- Developed the *AI Cards* framework for documenting uses of AI systems and their risks based on the requirements of the EU AI Act

Visiting Researcher

Jun 2023 - July 2023

Maynooth University – Maynooth, Ireland

- Conducted research on development of a tool for ethical assessment of AI systems based on the Ethics Canvas

Visiting Researcher

Dec 2022 - Feb 2023

Universidad Politécnica de Madrid – Madrid, Spain

- Developed a Semantic Web-based tool for determining high-risk AI systems as per the EU AI Act

Enterprise Architecture Specialist and Researcher

Jan 2016 - Aug 2020

Service-Oriented Enterprise Architecture (SOEA) Laboratory – Tehran, Iran

Teaching Experience

Guest Lecturer

2026

Digital Health for Postgraduate in Midwifery and Nursing – Trinity College Dublin

Topic: AI in Health –AI Risks and Regulations

Guest Lecturer

2024, 2025, 2026

Data Governance – Postgraduate (Master of Art (MA)) in Data Protection and Privacy (MDPP) and the European Master in Law, Data and Artificial Intelligence (EMILDAI)) – Dublin City University

Topic: Compliance with the EU AI Act

Guest Lecturer

2025

Data Governance – Undergraduates (Psychology) – Dublin City University

Topic: The EU AI Act and its Relevance to Psychology

Guest Lecturer

2024, 2023

What is the Internet Doing to Me? – Undergraduate: Elective Module – Trinity College Dublin

Topics: Technology Ethics, Data, and AI, Ethics Canvas EU AI Act, and AI standards

Teaching Assistant

2021-2023

Advanced Software Engineering– MSc. in Computer Science – Trinity College Dublin

Coordinated by Prof. Siobhan Clarke

Teaching Assistant

2022

What is the Internet Doing to Me? – Undergraduate: Elective Module – Trinity College Dublin

Coordinated by Dr. Stephen Farrell and Prof. Dave Lewis

Teaching Assistant

2021

EthicsLab: Responsible Action in the Real World – Undergraduate: Elective Module – Trinity College Dublin

Coordinated by Prof. Linda Hogen

Teaching Assistant

2016 - 2018

Large-Scale Software Systems Development (postgraduate module)– Shahid Beheshti University, Tehran, Iran

Teaching Assistant

2017

Advanced Software Engineering (postgraduate module)– Shahid Beheshti University, Tehran, Iran

Teaching Assistant

2014

Software Engineering I (undergraduate module)– Shahid Beheshti University, Tehran, Iran

Awards and Nominations

Best Overall Contribution Award – ADAPT Annual Scientific Conference (AASC 2025)

2025

Trinity Woman in STEM – Nominated by students at Trinity College Dublin

2025

Standard+Innovation Award – National Standards Authority of Ireland (NSAI)

2023

Nominee, Best Poster Award for “AIUP: an ODRL Profile for Expressing AI Use Policies to Support the EU AI Act” – SEMANTiCS

2024

Nominee, Standard+Innovation Award in the individual researcher category – CEN-CENELEC

2023

Best Student Contribution Award – ADAPT Annual Scientific Conference (AASC 2023)

2023

Best Student Contribution Award – ADAPT Annual Scientific Conference (AASC 2022)

2022

Marie Skłodowska-Curie Fellowship – as part of the EU-funded project PROTECT

2020

Groups and Memberships

The EU AI Office Code of Practice for General-Purpose AI Working Groups	2024 - 2025
AI, Algorithmic and Automation Incidents and Controversies (AIAAIC) Community Group	2023 - Ongoing
W3C Data Privacy Vocabularies and Controls Community Group (DPVCG)	2022 - Ongoing
GEDI (Gender, Equality, Diversity and Inclusion) committee – ADAPT Centre	2022 - Ongoing
Citizens' Think-Ins team – ADAPT Centre	2022 - 2023
National Standards Authority of Ireland (NSAI), Technical Committee (TC) 02/SubCommittee (SC) 18 on Artificial Intelligence	2021 - Ongoing
CEN-CENELEC Joint Technical Committee (JTC) 21 on Artificial Intelligence	2021 - ongoing
ISO/IEC JTC 1/SC 42 on Artificial Intelligence	2021 - ongoing

Peer-Review Activities

AAAI/ACM Conference on AI, Ethics, and Society (AIES)	2025
Heliyon (from Elsevier)	2025
Social Sciences & Humanities Open (from Elsevier)	2025
International Conference on Semantic Systems (SEMANTiCS)	2024, 2025
European Journal of Law and Technology (EJLT)	2024
The Annual Conference on Neural Information Processing Systems (NeurIPS) – Ethics Reviewer	2023, 2024, 2025
30th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2022)	2022

Academic Event Organisation

Workshop Organiser “A Dialogue on AI and Data Governance When the World is Watching—a deliberation with early-career researchers” at CPDP conference, Brussels, Belgium, organised by the ADAPT Centre and the Fresh Minds initiative of the European Commission’s Joint Research Centre	May 2025
Workshop Organiser “AI: To Govern or to be Governed? - A Deliberation with Early-Career Researchers” at the CPDP conference, Brussels, Belgium, organised by ADAPT Centre and the European Commission’s Joint Research Centre	May 2024
Conference Coordinator The first National Conference on Advances in Enterprise Architecture (NCAEA2017), Tehran, Iran	December 2017

Selected Panels and Presentations

Speaker, Workshop on Mechanisms for Governing Responsible AI and Data Science , organised by University of Birmingham (UK) and National Institute of Informatics (Japan)	August 2025
Speaker, “ To use ChatGPT or not to use ChatGPT, is that the question? An Interdisciplinary Workshop on how, when or if to use GenAI in Healthcare Education ”, School of Nursing & Midwifery, Trinity College Dublin	May 2025

Panelist, “Trinity Woman in STEM” , organised by DU General Science Society and TCD Equality in STEM Society, Trinity College Dublin	March 2025
Panelist, “Women in ICT standardisation” , organised by StandICT.eu	March 2025
Panelist, “Fireside chat on AI policies” , at the launch of the AI Accountability Lab (AIAL) directed by Dr. Abeba Birhane	November 2024
Panelist, “A Spotlight on the ADAPT Centre at EBN Tech Camp” , organised by European Business and Innovation Centre Network (EBN) and Furthr	November 2024
Panelist, “Getting the Most out of Supervision” , organised by the Dean Graduate Studies at Trinity College Dublin	November 2024
Podcast interview, “Digital Markets Act? Sounds like trouble” , TechRadio podcast	February 2024
Speaker, “Navigating Compliance with the EU AI Act” , Machine Learning Dublin Meetup	January 2024
Panelist, “AI Ethics” , organised by Research Ireland Centre for Research Training in Digitally-Enhanced Reality (d-real)	November 2023
Research presentation, “FAIR Ontologies for Cataloguing AI Risks” , The annual Semantic Interoperability Conference (SEMIC) 2022, Brussels, Belgium	December 2022
Research presentation (online), “AIRO: An Ontology for Representing AI Risks Based on EU’s AI Act and ISO 31000 Family of Standards” , Science Foundation Ireland (SFI) Summit 2022	November 2022

Mentorship & Supervision

PhD

“Open Semantic Web-based Model for Collective Governance of Generative AI Use in Research Communities”, Victoria Wiegand, Trinity College Dublin	2025 - ongoing
--	----------------

MSc.

“A Reusable Semantic Web-based Framework Linking LLM Risks to Fundamental Rights for EU AI Act High-Risk Public Sector Applications”, Faith Olopade, Trinity College Dublin	2026
“Harnessing Semantic Web Technology for AI Risk Assessment in SMEs”, Dara Callinan, Trinity College Dublin	2023
“Leveraging Large Language Models in Conjunction with Ontologies for Annotation of AI Incidents”, Abhinaw Tiwari, Trinity College Dublin	2023

Internship projects

“Browser interface for generating AI Cards”, Hephzibah Bode-Favours, Dublin City University	2024
---	------

Journal Publications

1. **Semantic frameworks to support implementation of the EU AI Act** [↗](#) 2026
Delaram Golpayegani, Harshvardhan J. Pandit, Declan O’Sullivan, Dave Lewis
Computer Law & Security Review
2. **Impact assessment requirements in the GDPR vs the AI Act: Overlaps, divergence, and implications** [↗](#) 2026
Tytti Rintamäki, **Delaram Golpayegani**, Dave Lewis, Edoardo Celeste, Harshvardhan J. Pandit

3. **An Open Knowledge Graph-based Approach for Mapping Concepts and Requirements Between the EU AI Act and International Standards** [↗](#) 2025
Julio Hernandez, **Delaram Golpayegani**, and Dave Lewis
AI and Ethics

Conference & Workshop Publications

1. **Uncovering AI Governance Themes in EU Policies Using BERTopic and Thematic Analysis** [↗](#) 2025
Delaram Golpayegani, Marta Lasek-Markey, Arjumand Younus, Aphra Kerr, Dave Lewis
Frontiers in Artificial Intelligence and Applications, Volume 416: Legal Knowledge and Information Systems
2. **Semantic Patterns of Prohibited AI Systems in the EU AI Act** [↗](#) 2025
Delaram Golpayegani, Harshvardhan J Pandit, and Dave Lewis
NeXt-generation Data Governance workshop
3. **Assessing AI Certification Validity via Knowledge Graphs for Use Case Similarity** [↗](#) 2025
Elizabeth M Daly, Jasmina Gajcin, Inge Vejsbjerg, **Delaram Golpayegani**, Rahul Nair, Kush R Varshney
EurIPS 2025 Workshop on Private AI Governance
4. **AI Cat: An AI Cataloguing Approach to Support the EU AI Act** [↗](#) 2024
Delaram Golpayegani, Harshvardhan J Pandit, and Dave Lewis.
The 32nd Irish Conference on Artificial Intelligence and Cognitive Science
5. **AI Cards: Towards an Applied Framework for Machine-Readable AI and Risk Documentation Inspired by the EU AI Act** [↗](#) 2024
Delaram Golpayegani, Isabelle Hupont, Cecilia Panigutti, Harshvardhan J. Pandit, Sven Schade, Declan O'Sullivan, and Dave Lewis.
Privacy Technologies and Policy. Springer Nature
6. **Data Privacy Vocabulary (DPV) – Version 2.0** [↗](#) 2024
Harshvardhan J. Pandit, Beatriz Esteves, Georg P. Krog, Paul Ryan, **Delaram Golpayegani**, and Julian Flake
The Semantic Web Conference (ISWC)
7. **AIUP: an ODRL Profile for Expressing AI Use Policies to Support the EU AI Act** [↗](#) 2024
Delaram Golpayegani, Beatriz Esteves, Harshvardhan J. Pandit, and Dave Lewis
Joint Proceedings of Posters, Demos, Workshops, and Tutorials of the 20th International Conference on Semantic Systems co-located with 20th International Conference on Semantic Systems (SEMANTiCS 2024). 2024.
8. **Ontology-Based Approach for Mapping Concepts and Requirements from Regulations and Standards: The Case of the EU AI Act and International Standards** [↗](#) 2024
Julio Hernandez, **Delaram Golpayegani**, David Lewis
In: Legal Knowledge and Information Systems. Vol. 395. IOS Press. 2022, pp. 295 - 300.
9. **To Be High-Risk, or Not To Be—Semantic Specifications and Implications of the AI Act's High-Risk AI Applications and Harmonised Standards** [↗](#) 2023
Delaram Golpayegani, Harshvardhan J Pandit, and Dave Lewis

10. **[AIRO: An ontology for representing AI risks based on the proposed EU AI Act and ISO risk management standards](#)** 2022
Delaram Golpayegani, Harshvardhan J. Pandit, and Dave Lewis.
 In: Towards a Knowledge- Aware AI. Vol. 55. IOS Press. 2022, pp. 51–65.
11. **[Comparison and Analysis of 3 Key AI Documents: EU’s Proposed AI Act, Assessment List for Trustworthy AI \(ALTAI\), and ISO/IEC 42001 AI Management System](#)** 2022
Delaram Golpayegani, Harshvardhan J. Pandit, and Dave Lewis
 Artificial Intelligence and Cognitive Science (AICS) 2022. Communications in Computer and Information Science, vol 1662. Springer,
12. **[Towards a Taxonomy of AI Risks in the Health Domain](#)** 2022
Delaram Golpayegani, Joshua Hovsha, Leon W. S. Rossmair, Rana Saniei, and Jana Misic
 International Conference on Transdisciplinary AI (TransAI).
13. **[A Classification Taxonomy for Public Services in Iran](#)** 2018
 Fereidoon Shams Aliee, Reza Bagheriasl, Amir Mahjoorian, Maziar Mobasheri, Faezeh Hosieni, and **Delaram Golpayegani**
 International Conference on Enterprise Information Systems
14. **[Towards a national enterprise architecture framework in Iran](#)** 2018
 Fereidoon Shams Aliee, Reza Bagheriasl, Amir Mahjoorian, Maziar Mobasheri, Faezeh Hosieni, and **Delaram Golpayegani**
 International Conference on Enterprise Information Systems
15. **[Making a tradeoff between adaptation and integration in adaptive service based systems](#)** 2015
Delaram Golpayegani and Fereidoon Shams
 International Symposium on Computer Science and Software Engineering (CSSE), IEEE

Other Publications and Open Resources

1. **[ADAPT Centre Contribution on Implementation of the EU AI Act and Fundamental Right Protection](#)**, submission to Department of Enterprise, Tourism and Employment (DETE)’s consultation Submission to consultation
2. **[ADAPT Centre’s contribution to European Commission’ Apply AI Strategy – strengthening the AI continent](#)** Submission to consultation
3. **[ADAPT Centre’s contribution to the European Commission’s public consultations on the future European Strategy for Artificial Intelligence in Science](#)** Submission to consultation
4. “Principles of Advanced Software Engineering for Managing Complexity” (in Farsi), Fereidoon Shams Aliee and **Delaram Golpayegani**, Shahid Beheshi University Publication, 2020. Book
5. AI Risk Ontology (AIRO), published as an open resource under the CC-BY-4.0 licence at <https://w3id.org/airo> Ontology
6. Vocabulary of AI Risks (VAIR), published as an open resource under the CC-BY-4.0 licence at <https://w3id.org/vair> Ontology
7. **[Is my AI system high-risk?](#)** , a web application for determining high-risk AI applica- Web

tions under the AI Act, available as an open resource under the MIT licence at https://github.com/DelaramGlp/highrisk_app

application