

Mireia Yurrita

Curriculum Vitae

Delft, the Netherlands
☎ (+34) 638 91 74 97
✉ m.yurritasemperena@tudelft.nl
📄 mireiayurrita.github.io/

Education

- 2021–2024/2025 **PhD Degree in Human-Computer Interaction - Delft University of Technology, Delft, the Netherlands.**
Department: Knowledge and Intelligence Design.
Supervisors: Alessandro Bozzon, Sylvia Pont.
- 2018–2020 **M.Sc. Degree in Industrial (Mechanical) Engineering - University of Navarra, San Sebastian, Spain, GPA: 9.28/10.**
Thesis Title: Algorithmic Zoning: pro-social incentive implementation using Agent-Based Modeling (graded 10/10).
Master thesis conducted at MIT Media Lab (*Cambridge, USA*).
- 2014–2018 **B.Sc. Degree in Industrial Technology Engineering - University of Navarra, San Sebastian, Spain, GPA: 9.16/10.**
Thesis title: Development of a mathematical model for measuring the vibration isolation capacity of magneto-sensitive rubber (graded 10/10).
Graduated 2nd of the class out of 50 students.

Work Experience

- 2021–2024/2025 **Doctoral Researcher - Delft University of Technology, Delft, the Netherlands.**
Task:
 - Researcher at the intersection of human-AI interaction and Algorithmic Fairness, Accountability, and Transparency. I develop conceptual frameworks and conduct empirical studies (quantitative and qualitative) to guide the development of responsible AI systems.
 - Early Stage Researcher and Marie Skłodowska-Curie fellow at the Innovative Training Network DCODE
 - Teaching assistant. Courses: Crowd Computing (Computer Science Faculty), Machine Learning for Design (Industrial Design Engineering Faculty).
- 2020–2021 **Hydraulic Design Engineer - Ingeteam, San Sebastian, Spain.**
Task: Hydrodynamic design and optimization of mixed-flow turbomachinery.
- 2019–2020 **Visiting Student - MIT Media Lab, Cambridge, USA.**
Task: Development of an algorithmic incentive system on the GAMA Platform -Agent-Based Modeling- as part of the City Scope project in the City Science group.
- 2017–2018 **Mechanical Engineer Intern - Orona, San Sebastian, Spain.**
Tasks:
 - Improvement of a calculation tool for vibration isolators on Matlab.
 - Creation of a tool to optimise the direction of lift cars on Matlab.
 - Design of a mock-up for testing load weighing sensors on Solidworks.

2015–2017 **Student Assistant - University of Navarra, San Sebastian, Spain.**

Tasks:

- Collaborator in the Entry Level Mathematics Course for Engineers (Biomedical Engineering and Science Department).
- Study and parameterisation of the Laplace equation on Matlab applied to turbine blades (Fluid Mechanics Department).
- Development of a tool for the calculation of deformation, shear stress and bending moment in beams using the Method of Finite Differences on Matlab (Strength of Materials Department).

Supervision

Master Thesis **Miny Rajiv**, *Elucidating a 'black-box' transcends explaining the algorithm. Exploring Explainable AI (XAI) as a way to address AI implementation challenges in the Dutch public sector.*

Research Elective **Seowoo Nam**, *A design toolkit for multi-stakeholder systematic negotiation of values in algorithmic systems.*

Teaching

Teaching Assistant IOB4-T3 Machine Learning for Design, 2024

Teaching Assistant CS4145 Crowd Computing, 2023

Guest Lecturer ID5417 Artificial Intelligence and Society, 2023

Guest Lecturer ID5235 Interdisciplinary AI Research Methods, 2023, 2024

Fellowships

PhD Degree Financed by *Marie Skłodowska-Curie Fellowship*, European Commission.

Master Thesis Financed by *International Connecting Talent Fellowship*, Fomento de San Sebastian, and *Global Internship Program 2019 Fellowship*, Caja Rural de Navarra.

M.Sc. Degree Financed by *Universidad de Navarra - Grupo Santander Fellowship*, Banco Santander.

Publications

WIP Miny Rajiv*, **Mireia Yurrita***, Sietze Kuilman, Luciano Cavalcante Siebert, Alessandro Bozzon. 2024. Towards Responsible AI Adoption: Implementation Practices and Challenges in the Dutch Public Sector. *Work in Progress*.

TOCHI [Submitted] **Mireia Yurrita**, Himanshu Verma, Agathe Balayn, Ujwal Gadiraju, Sylvia Pont, Alessandro Bozzon. 2024. Ability, Benevolence, Integrity: How Decision Subjects' Perceptions of Decision-Makers Shape their Fairness Perceptions in Algorithmic Decision-Making. Submitted to *ACM Transactions on Computer-Human Interaction*.

- CSCW 2024 [Under Review] **Mireia Yurrita**, Himanshu Verma, Agathe Balayn, Kars Alfrink, Ujwal Gadiraju, Alessandro Bozzon. 2024. Personalize, Prioritize, Collectivize: Identifying Algorithmic Decision Subjects' Needs for Meaningful Contestability. Under review in *ACM Conference on Computer-Supported Cooperative Work and Social Computing*.
- CHI 2024 Chadha Degachi, Siddharth Mehrotra, **Mireia Yurrita**, Evangelos Niforatos, Myrthe Lotte Tielman. 2024. Practising Appropriate Trust in Human-Centred AI Design. In *2024 Extended Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '24)*. Association for Computing Machinery, New York, NY, USA, Article 269, 1–8.
- TREW at CHI 2024 Agathe Balayn, **Mireia Yurrita**, Fanny Rancourt, Fabio Casati, Ujwal Gadiraju. 2024. An Empirical Exploration of Trust Dynamics in LLM Supply Chains. In *Workshop on Trust and Reliance in Evolving Human-AI Workflows at CHI 2024 (TREW '24)*.
- She Ji 2024 Kars Alfrink, Ianus Keller, **Mireia Yurrita**, Denis Bulygin, Gerd Kortuem, Neelke Doorn. 2024. Envisioning Contestability Loops: Evaluating the Agonistic Arena as a Generative Metaphor for Public AI. In *She Ji: The Journal of Design, Economics, and Innovation*.
- AIES 2023 Agathe Balayn, **Mireia Yurrita**, Jie Yang, Ujwal Gadiraju. 2023. "Fairness Toolkits, A Checkbox Culture?" On the Factors that Fragment Developer Practices in Handling Algorithmic Harms. In *2023 Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society (AIES '23)*. Association for Computing Machinery, New York, NY, USA, 482–495. **Best Paper Award**
- CHI 2023 **Mireia Yurrita**, Tim Draws, Agathe Balayn, Dave Murray-Rust, Nava Tintarev, and Alessandro Bozzon. 2023. Disentangling Fairness Perceptions in Algorithmic Decision-Making: the Effects of Explanations, Human Oversight, and Contestability. In *CHI Conference on Human Factors in Computing Systems (CHI '23)*. ACM, New York, NY, USA. **Best Paper Award**
- H CXAI at CHI 2023 **Mireia Yurrita**, Agathe Balayn, Ujwal Gadiraju. 2023. Generating Process-Centric Explanations to Enable Contestability in Algorithmic Decision-Making: Challenges and Opportunities. In *2023 Human-Centered XAI Workshop at CHI 2023 (HCXAI '23)*.
- ACM CSUR [Under review] Andrea Tocchetti*, Lorenzo Corti*, Agathe Balayn*, **Mireia Yurrita**, Philip Lippmann, Marco Brambilla, Jie Yang. AI Robustness: a Human-Centered Perspective on Technological Challenges and Opportunities. 2022. Under Review in *ACM Computing Surveys*.
- FACCT 2022 **Mireia Yurrita**, Dave Murray-Rust, Agathe Balayn, and Alessandro Bozzon. 2022. Towards a multi-stakeholder value-based assessment framework for algorithmic systems. In *2022 ACM Conference on Fairness, Accountability, and Transparency (FACCT '22)*. ACM, New York, NY, USA, 535–563.

- MABS 2021 **Mireia Yurrita**, Arnaud Grignard, Luis Alonso, and Kent Larson. Real-Time Inference of Urban Metrics Applying Machine Learning to an Agent-Based Model Coupling Mobility Mode and Housing Choice. In *Multi-Agent-Based Simulation XXII: 22nd International Workshop, MABS 2021, Virtual Event, May 3-7, 2021, Revised Selected Papers*, pp. 125-138. Cham: Springer International Publishing, 2022.
- Intelligent Computing 2021 **Mireia Yurrita**, Arnaud Grignard, Luis Alonso, Yan Zhang, Cristian Ignacio Jara-Figueroa, Markus Elkatsha, and Kent Larson. Dynamic urban planning: an agent-based model coupling mobility mode and housing choice. Use case Kendall Square. In *Intelligent Computing: Proceedings of the 2021 Computing Conference*, Volume 2, pp. 940-951. Springer International Publishing, 2021.