

# Mireia Yurrita

## Curriculum Vitae

Delft, the Netherlands  
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### 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).

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## 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.*

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## 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

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## 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.

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## 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 **Mireia Yurrita**, Himanshu Verma, Agathe Balayn, Kars Alfrink, Ujwal Gadiraju, [Under Review] 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 [Just Accepted] 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.