

JESSICA WOODGATE

github.com/jessica-woodgate jessica-woodgate.github.io/ [linkedin.com/in/jessica-woodgate](https://www.linkedin.com/in/jessica-woodgate) jessica.woodgate@bristol.ac.uk
Bristol, UK ☎07548166774

Computer Science Ph.D. student at the University of Bristol. Passionate about the impact of technology on society, research interests lie in the domain of AI ethics and multi-agent systems, specifically applying normative ethics principles to decision-making in sociotechnical systems (STS).

EDUCATION

University of Bristol, UK <i>Ph.D. in Computer Science</i>	<i>November 2022 – February 2027</i>
University of Bristol, UK <i>M.Sc. Computer Science (Conversion): Distinction</i>	<i>September 2020 – January 2022</i>
University of Sheffield, UK <i>B.A. (Hons) Philosophy: Upper Second-Class Honours 68.5%</i>	<i>September 2015 – July 2018</i>

ACADEMIC PROJECTS (ALL AVAILABLE ON GITHUB)

Developer, RAWL·E	<i>February 2025</i>
<ul style="list-style-type: none">Built a codebase facilitating the creation of agents that promote ethical norms by operationalising Rawlsian ethics to balance societal well-being with individual goalsEvaluations in simulated harvesting scenarios comparing societies of RAWL·Eagents with societies of agents that do not implement Rawlsian ethics	
SCRUM Leader, Database Lead, Back-End Co-Developer, Left Unread (Module: Software Engineering and Group Project)	<i>February 2021 – May 2021</i>
<ul style="list-style-type: none">SCRUM team leader ensuring regular effective meetings, sprint goals set and met, all team members were supported, user impact was addressed, and ethical framework was adhered toLed database development and co-developed back-end development including building the API, and ensuring other back-end developers stayed on track	
Developer, STAG (Module: Object-Oriented Programming with Java)	<i>June 2021</i>
<ul style="list-style-type: none">Constructed a general-purpose socket-server game-engine for text adventure games in Java	
Developer, DB (Module: Object-Oriented Programming with Java)	<i>March 2021</i>
<ul style="list-style-type: none">Assembled a relational database server from scratch in Java	

PROFESSIONAL SERVICE

Organiser, Protecting the Earth with Autonomous Systems (PROTEAS)	<i>November 2024 – ongoing</i>
Help with organising workshops, project supervision, and investigating sustainability considerations in education	
Organiser, Citizen-Centric AI Systems (CCAIS) Seminars	<i>July 2023 – ongoing</i>
Facilitate seminars including moderating sessions, liaising with speakers, and website maintenance	
Organiser, Data Ethics Club	<i>January 2023 – ongoing</i>
Moderate seminars and author blog posts summarising reading related to data ethics and seminar discussions	
PC Member, C-MAS workshop, AAMAS	<i>March 2025</i>
PC Member, C-MAS workshop, AAMAS	<i>March 2024</i>
Consultant, AI Ethics for Journalists, The Thompson Foundation	<i>April 2023</i>
Advised development of course on AI ethics for journalists. Provided critical feedback on course content and structure.	
PC Member, AAMAS Blue Sky Track	<i>December 2022</i>
Student Volunteer, IJCAI	<i>August 2022</i>

ACADEMIC EXPERIENCE

University of Bristol, UK
Summer Project Co-Supervisor

June 2025 – September 2025

Robotics M.Sc. Summer Project

University of Bristol, UK
Teaching Assistant

September 2022 – December 2022

Introduction to Computer Science, Computer Science (Conversion) M.Sc.

University of Bristol, UK
Research Assistant

January 2022 – November 2022

Published a Blue Sky paper from the findings of M.Sc. dissertation suggesting research directions for the application of normative ethical principles to multiple user social dilemmas

University of Bristol, UK
M.Sc. Computer Science (Conversion)

September 2020 – January 2022

Conducted a critical analysis of normative ethics in computer science and application to multiple-user social dilemmas

PUBLICATIONS

Jessica Woodgate. *Ethical Decision-Making in Multi-Agent Systems*. (Accepted/In press). Proc. of 24th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2025, p. 1-3.

Jessica Woodgate and Nirav Ajmeri. *Combining Normative Ethics Principles to Learn Prosocial Behaviour*. (Accepted/In press). Proc. of 24th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2025, p. 1-3.

Jessica Woodgate, Paul Marshall, and Nirav Ajmeri. *Operationalising Rawlsian Ethics for Fairness in Norm-Learning Agents*. (Accepted/In press). Proc. of 39th Annual AAAI Conference on Artificial Intelligence (AAAI), 2025, p. 1-9.

Jessica Woodgate and Nirav Ajmeri. *Macro Ethics Principles for Responsible AI Systems: Taxonomy and Future Directions*. ACM Computing Surveys (CSUR), 2024, pages 1-39.

Jessica Woodgate. *Ethical Principles for Reasoning about Value Preferences*. Proc. of 6th International Conference on Artificial Intelligence, Ethics and Society (AIES), Student Track, Montreal, 2023, pages 972-974.

Jessica Woodgate and Nirav Ajmeri. *Macro Ethics for Governing Equitable Sociotechnical Systems*. Proc. of 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Blue Sky Idea Track, Auckland, 2022, pages 1824-1828.

ACADEMIC PRESENTATIONS

Invited Talks

- January 2025. Generated Science: How AI is Impacting Academic Publishing. Copenhagen University Library, Online.
- November 2024. Generated Science: How AI is Impacting Academic Publishing. Knowledge Exchange Expert Meeting. Jisc, Bristol.

Conference Papers

- February 2025. Operationalising Rawlsian Ethics for Fairness in Norm-Learning Agents. 39th Annual AAAI Conference on Artificial Intelligence (AAAI). Philadelphia.
- August 2023. Ethical Principles for Reasoning about Value Preferences. 6th International Conference on Artificial Intelligence, Ethics and Society (AIES), Student Track. Montreal.
- May 2022. Macro Ethics for Governing Equitable Sociotechnical Systems. 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Blue Sky Idea Track. Auckland, Online.

AWARDS

Funding to attend AAAI

February 2025

- Awarded 1200 USD from AAAI to participate and present at AAAI annual conference

Funding to attend AIES

August 2025

- Awarded 1300 USD from AIES and 750 GBP from Society for Applied Philosophy to participate and present at AIES