Emmie Hine

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EDUCATION

University of Bologna, Bologna, Italy   Expected Graduation October 2025
PhD Candidate in Law, Science, and Technology studying impact of extended reality (XR) technology on human rights
University of Oxford, Oxford, U.K. | Distinction   Graduated August 2021
Master of Science in Social Science of the Internet as a Shirley Scholar and Donovan-Moody Fellow

Williams College, Williamstown, MA | GPA: 3.96   Graduated June 2020
Bachelor of Arts *magna cum laude* in Computer Science and Chinese; concentration in Science and Technology Studies
Honors: Phi Beta Kappa, Clare Booth Luce Scholar, Class of '60s Scholar, Dean's List, Linen Grant for Study in Asia
University of Oxford, Oxford, U.K. | GPA 4.07   September 2018-June 2019
Chosen to study abroad as part of the highly selective Williams-Exeter Programme at Oxford
Harvard Beijing Academy, Beijing, China | GPA 4.00   June 2017-August 2017
New Trier Township High School, Winnetka, IL | GPA: 4.00; ACT: 36   Graduated June 2016
Honors: National Merit Scholarship Winner, Presidential Scholar Nominee, Honor Roll, Chinese Book Award, Excellence in Scientific Research Award, Excellence in History Award

RESEARCH EXPERIENCE

University of Oxford, Oxford, U.K., *Master's Thesis*   October 2020-August 2021
- Research quantitatively and qualitatively examined American and Chinese AI policy; thesis received Distinction
- Briefed UK Embassy in Beijing on China's AI governance efforts
Berkeley Existential Risk Initiative, Berkeley/Oxford, *Research Assistant*   September 2019-July 2021
- Assisted on research projects with the Centre for the Governance of AI, Future of Humanity Institute (Oxford)
Williams College, Williamstown, MA, *Honors Thesis*   August 2019-June 2020
- Built tool to address the replication crisis in the social sciences by allowing researchers to crowdsource experiments
- Poster accepted to Grace Hopper 2020 Poster Session and ACM Student Research Competition
Williams College, Williamstown, MA, *WARP Lab Research Intern*   June 2018-August 2018
- As a Clare Booth Luce Scholar, designed and implemented new language to support ProDirect Manipulation

EMPLOYMENT EXPERIENCE

Ab Initio, Lexington, MA, *Software Developer*   September 2021-September 2022
- Full-stack engineer; worked on enterprise data management version control tools and machine learning workflows
Ab Initio, Lexington, MA, *Development Intern*   June 2020-August 2020
- Took lead on full-stack project adding blame annotation to internal and customer-facing interfaces
Braintree, Chicago, IL, *Cybersecurity Intern*   June 2019-August 2019
- Implemented hardware two-factor authentication in merchant portal; deployed container security tool
Beam Suntory, Chicago, IL, *IT Intern*   August 2018-September 2018
- Collaborated on project processing converting production dataflows to SQL and increasing efficiency
Williams College, Williamstown, MA, *Chinese Teaching Assistant*   September 2017-June 2018
- Facilitated weekly discussion sessions with second-year Chinese students to build language skills and confidence

LEADERSHIP EXPERIENCE

University of Oxford, Oxford, U.K.
- *Graduate Student Representative*   October 2020-August 2021
  - Elected by classmates to be a voice for students; advocated for peers and contributed to new welfare policies
- *Indoor Climbing Captain and Team Founder*   December 2018-June 2019, April 2020-August 2021
  - Volunteered as Oxford University Mountaineering Club member to coach training group; inaugurated committee role
  - Lead biweekly live remote training sessions to build fitness and boost morale in lockdown
- *Computer Science Student Ambassador*   October 2018-June 2019
  - Selected and trained to promote computer science to secondary school students, especially underrepresented groups
Williams College, Williamstown, MA
- *Computer Science Student Advisory Committee*   September 2017-June 2018
  - Nominated and elected by peers to foster inclusive department culture, organize events, and interview potential hires
- *Rape and Sexual Assault Network*   January 2017-June 2020
  - Operated sexual assault prevention hotline after training course focused on communication and listening skills
- *Climbing Team Collegiate Captain; President*   September 2016-June 2020; September 2019-June 2020

SKILLS

Programming Languages:
- Proficient: Java, C, C++, TypeScript, JavaScript, SQL, Scala, Swift, Python
- Working knowledge: R, Ruby, ARM Assembly, x86 Assembly, Lisp, SML
Tools: Node, React, MobX, Git, UNIX, LaTeX, Google Cloud Dataprep, AWS, Rails, Mocha, Webdriver, Cypress
Other: Advanced Chinese proficiency, Wilderness First Responder certification

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PEER-REVIEWED JOURNAL ARTICLES

Hine, Emmie. Governing Silicon Valley and Shenzhen: Assessing a New Era of Artificial Intelligence Governance in the United States and China. *Preprint* (2023).

Hine, Emmie. Content Moderation in the Metaverse Could Be a New Frontier to Attack Freedom of Expression. *Philosophy & Technology* (2023).

Hine, Emmie & Floridi, Luciano. The Blueprint for an AI Bill of Rights: In Search of Enaction, at Risk of Inaction. *Minds and Machines* (2023).

Hine, Emmie & Floridi, Luciano. New deepfake regulations in China are a tool for social stability, but at what cost? *Nature Machine Intelligence* (2022).

Hine, Emmie & Floridi, Luciano. Artificial Intelligence with American Values and Chinese Characteristics: A Comparative Analysis of American and Chinese Governmental AI Policies. *AI & Society* (2022).

Roberts, H., Cowls, J., Hine, E., Morley, J., Taddeo, M., Wang, V., & Floridi, L. Governing Artificial Intelligence in China and the European Union: Comparing Aims and Promoting Ethical Outcomes. *The Information Society* (2022).

Roberts, H., Cowls, J., Hine, E., Mazzi, F., Tsamados, A., Rosaria, M., & Floridi, L. Achieving a 'Good AI Society': Comparing the aims and progress of the EU and the US. *Science & Engineering Ethics* (2021).

CONFERENCE PAPERS

Hine, Emmie. Governing Silicon Valley and Shenzhen: Assessing a New Era of Artificial Intelligence Governance in the US and China. Abstract and poster presented on AIES '23 student track. *Proceedings of the Sixth AAAI/ACM Conference on Artificial Ethics, Intelligence, and Society* (*AIES '23*).

Ashurst, C., Hine, E., Sedille, P., & Carlier, A. AI Ethics Statements–Analysis and lessons learnt from NeurIPS Broader Impact Statements. *Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency (FAccT '22)*.

Alex, N., Lifland, E., Tunstall, L., Thakur, A., Mahum, P., Riedel, C.J., Hine, E., et al. RAFT: A Real-World Few-Shot Text Classification Benchmark. *Proceedings of the 35th Conference on Neural Information Processing Systems (NeurIPS '21)*.

Hine, Emmie. Informed Digital Consent for Use of AI Systems Grounded in a Model of Sexual Consent. *Proceedings of the 1st International Conference on AI for People (CAIP '21)*.

Do, Q., Campbell, K., Hine, E., Pham, Dzung., Taylor, A., Howley, I., & Barowy, D. Evaluating ProDirect manipulation in hour of code. *Proceedings of the 2019 ACM SIGPLAN Symposium on SPLASH-E (SPLASH-E '19)*.

BOOK CHAPTERS

Roberts, H.*, Hine, E.*, & Floridi, L. Digital Sovereignty, Digital Expansionism, and the Prospects for Global AI Governance. *Quo Vadis, Sovereignty? : New Conceptual Boundaries in the Digital Age of China* (forthcoming).

Hine, E.*, Morley, J.*, Taddeo, M., & Floridi, L. Saving Human Lives and Rights: Recommendations for Protecting Human Rights when Adopting COVID-19 Vaccine Passports. *2022 Yearbook of the Digital Governance Research Group* (2023), written for the Vodafone Institute as Vodafone Technology for Good Fellow.

Hine, Emmie. The Impact of Australia's News Media Bargaining Code on Journalism, Democracy, and the Battle to Regulate Big Tech. *2021 Yearbook of the Digital Ethics Lab* (2022).

AD-HOC MANUSCRIPT REVIEWING (2020-PRESENT)

Minds and Machines	Ethics and Information Technology	Telecommunications Policy
Philosophy & Technology	Res Publica	PLOS One
Digital Society		

OTHER

Panel participant at ICON-S Italy on "Challenges and Opportunities of the 'Algorithmic Society': Artificial Intelligence as a Help or Hindrance for Fundamental Rights?" (October 2023)

Guest editor of forthcoming Digital Society topical collection, "The Situated Metaverse" (October 2023-2024)

Winner of First University of St. Gallen Grand Challenge on the EU AI Act as part of team LegalAIzers (July 2023)

Selected to compete in the Grace Hopper 2020 ACM Student Research Competition

Author of the Ethical Reckoner Substack exploring the ethics of technology