

Gabriel Lima

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RESEARCH INTERESTS

My research interests reside at the intersection of human-computer interaction (HCI) and artificial intelligence (AI) ethics. More concretely, I am interested in understanding laypeople's perceptions of AI systems and their impacts on society. Through my research, I intend to examine how AI can rectify social injustices instead of perpetuating them.

I am now investigating how different ways of framing algorithmic harms can shape the public perception of decision-making algorithms. I am interested in how some of the ideologies shaping AI research, e.g., that algorithms are value-neutral, can form laypeople's understanding of algorithms deployed in high-risk domains. My primary objective is to influence AI development and regulation, ensuring that they are aligned with the opinions of marginalized groups.

During my BS and MS, I investigated people's perceptions of moral and legal responsibility for algorithmic decision-making. My research focused on capturing whom people consider responsible when AI causes harm to embed laypeople's opinions in normative research and policymaking to mitigate any potential conflicts between folk expectations and AI governance.

EDUCATION

Max Planck Institute for Security and Privacy (MPI-SP)

Bochum, Germany, Sep. 2023 - Present

Ph.D. in Computer Science. Advisor: Yixin Zou.

Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, South Korea, Mar. 2021 - Feb. 2023

M.S. in Computer Science. Advisor: Meeyoung Cha.

Thesis: The Conflict Between Explainability and Responsibility in Algorithmic Decision-Making

Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, South Korea, Feb. 2017 - Feb. 2021

Advanced B.S. in Computer Science (with honors).

SELECTED PUBLICATIONS

Lay Perceptions of Algorithmic Discrimination in the Context of Systemic Injustice

Gabriel Lima, Nina Grgić-Hlača, Markus Langer, Yixin Zou

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025

<https://doi.org/10.1145/3706598.3713536>

Public Opinions About Copyright for AI-Generated Art: The Role of Egocentricity, Competition, and Experience

Gabriel Lima, Nina Grgić-Hlača, Elissa Redmiles

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025

<https://doi.org/10.1145/3706598.3713338>

Who Should Pay When Machines Cause Harm? Laypeople's Expectations of Legal Damages for Machine-Caused Harm

Gabriel Lima, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha

Proceedings of the 2023 Conference on Fairness, Accountability, and Transparency (FAccT). 2023

<https://doi.org/10.1145/3593013.3593992>

Blaming Humans and Machines: What Shapes People's Reactions to Algorithmic Harm

Gabriel Lima, Nina Grgić-Hlača, Meeyoung Cha

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2023

<https://doi.org/10.1145/3544548.3580953>

The Conflict Between Explainable and Accountable Decision-Making Algorithms

Gabriel Lima, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha

Proceedings of the 2022 Conference on Fairness, Accountability, and Transparency (FAccT). 2022
<https://doi.org/10.1145/3531146.3534628>

Human Perceptions on Moral Responsibility of AI: A Case Study in AI-Assisted Bail Decision-Making

Gabriel Lima, Nina Grgić-Hlača, Meeyoung Cha

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2021

<https://doi.org/10.1145/3411764.3445260>

HONORS AND AWARDS

Honorable Mention Award at ACM CHI 2025 (Top 5%)

2024

Received for my paper titled “Lay Perceptions of Algorithmic Discrimination in the Context of Systemic Injustice.”

KAIST School of Computing Outstanding Thesis Award

2023

Received for my M.S. thesis titled “The Conflict Between Explainability and Responsibility in Algorithmic Decision-Making.”

SIGCHI Gary Marsden Travel Award

2023

Received USD 2,500 to attend ACM CHI 2023 and present my paper titled “Blaming Humans and Machines: What Shapes People's Reactions to Algorithmic Harm.”

Best Student Paper Award

2022

Received at the “Issues in XAI #4: Explainable AI: between ethics and epistemology” workshop for the paper titled “The Conflict Between Explainable and Accountable Decision-Making Algorithms.”

ACM EAAMO New Horizons Award

2022

Received at the ACM Conference on Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO’22) for the paper titled “Dimensions of Diversity in Human Perceptions of Algorithmic Fairness.” The New Horizons Award is given to papers “bridging research and practice that EAAMO aspires to foster.”

KAIST School of Humanities and Social Sciences Best Paper Award

Spring Semester, 2020

Received for the paper titled “How Granting Rights to AI and Robots Might Conflict with Human Rights.”

KAIST School of Computing Dean's List

Fall Semester, 2018

Received for outstanding academic achievement.

KAIST Graduate/Undergraduate Research Project (CURP) Funding

2018

Received KRW 8,000,000 (USD 6,700) for a research project on classifying emotion from raw speech data.

SERVICE

Co-Founder & Member of the MPI-SP Ethics Review Board (ERB)

2024 - Present

Designed and implemented all processes relevant to the Ethics Review Board (ERB) at MPI-SP.

Currently a member of the board, being responsible for reviewing studies.

PhD Representative for MPI-SP

Apr. 2024 - Present

Responsible for representing MPI-SP PhD students in meetings discussing student-related issues at MPI-SP and the Max Planck Society.

Member of the Max Planck Law | Tech | Society Initiative

Dec. 2023 - Present

Hosted speakers on topics in the intersection of law, technology, and society, and organized symposiums for graduate students from all around the world.

Reviewer

ACM Conference on Human Factors in Computing Systems (CHI)

2022 - 2025

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|---|-------------|
| ACM Conference on Fairness, Accountability, and Transparency (FAccT) | 2023 |
| Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) | 2023 |
| ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) | 2022 |
| ACM Conference on Human Factors in Computing Systems (CHI) - Late Breaking Work | 2022 - 2023 |
| International Journal of Human-Computer Studies | 2022 |
| We Robot Conference | 2021 |

WORK EXPERIENCES

Teaching Assistant - Privacy, Data Governance and Usability *Ruhr University Bochum, Oct. 2023 - Feb. 2025*
Responsible for grading students' assignments and assisting with administrative tasks.

Research Intern *Max Planck Institute for Software Systems (MPI-SWS), Jun. 2023 - Aug. 2023*
Supervisor: Elissa Redmiles.

Teaching Assistant - Data Science Methodology (CS564) *KAIST, Aug. 2021 - Jun. 2022*
Responsible for preparing and grading students' assignments, projects, and presentations and assisting with administrative tasks.

Teaching Assistant - Scientific Writing (CC500) *KAIST, Aug. 2021 - Dec. 2021*
Responsible for grading students' research papers and assisting with administrative tasks.

MEDIA/ACADEMIC COVERAGE

Impacts: Law and AI - Max Planck Law *Oct. 2024*
Reference to my ACM FAccT 2022 paper titled "The Conflict Between Explainable and Accountable Decision-Making Algorithms."
<https://law.mpg.de/impact/law-and-ai/>

Should Robots With Artificial Intelligence Have Moral or Legal Rights? - The Wall Street Journal *Apr. 2023*
Reference to my ACM CSCW 2020 paper titled "Collecting the Public Perception of AI and Robot Rights."
<https://www.wsj.com/articles/robots-ai-legal-rights-3c47ef40>

PUBLICATIONS LIST

Conferences are the primary publication venues for computer science/human-computer interaction (CS/HCI) research. Thus, the majority of my research is published in CS/HCI conference proceedings.

* denotes co-first authorship.

P1) **Lay Perceptions of Algorithmic Discrimination in the Context of Systemic Injustice**

Gabriel Lima, Nina Grgić-Hlača, Markus Langer, Yixin Zou

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025

<https://doi.org/10.1145/3706598.3713536>

P2) **Public Opinions About Copyright for AI-Generated Art: The Role of Egocentricity, Competition, and Experience**

Gabriel Lima, Nina Grgić-Hlača, Elissa Redmiles

Proceedings of the CHI Conference on Human Factors in Computing Systems. 2025

<https://doi.org/10.1145/3706598.3713338>

P3) **Beyond 'Vulnerable Populations:' A Unified Understanding of Vulnerability From A Socio-Ecological Perspective**

Xinru Tang, Gabriel Lima, Li Jiang Jiang, Lucy Simko, Yixin Zou

To Appear in the Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW). 2025

- P4) **Who Should Pay When Machines Cause Harm? Laypeople's Expectations of Legal Damages for Machine-Caused Harm**
Gabriel Lima, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha
Proceedings of the 2023 Conference on Fairness, Accountability, and Transparency (FAccT). 2023
<https://doi.org/10.1145/3593013.3593992>
- P5) **Blaming Humans and Machines: What Shapes People's Reactions to Algorithmic Harm**
Gabriel Lima, Nina Grgić-Hlača, Meeyoung Cha
Proceedings of the CHI Conference on Human Factors in Computing Systems. 2023
<https://doi.org/10.1145/3544548.3580953>
- P6) **User-Chatbot Conversations During the COVID-19 Pandemic: A Study Based on Topic Modeling and Sentiment Analysis**
Hyojin Chin, Gabriel Lima, Mingi Shin, Assem Zhunis, Chiyoung Cha, Junghoi Choi, Meeyoung Cha
Journal of Medical Internet Research (JMIR). 2023
<http://dx.doi.org/10.2196/40922>
- P7) **The Conflict Between Explainable and Accountable Decision-Making Algorithms**
Gabriel Lima, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha
Proceedings of the 2022 Conference on Fairness, Accountability, and Transparency (FAccT). 2022
<https://doi.org/10.1145/3531146.3534628>
- P8) **Others Are to Blame: Whom People Consider Responsible for Online Misinformation**
Gabriel Lima, Jiyoung Han, Meeyoung Cha
Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW). 2022
<https://doi.org/10.1145/3512953>
- P9) **Emotion Bubbles: Emotional Compositions of Online Discourse Before and After the COVID-19 Outbreak**
Assem Zhunis, Gabriel Lima, Hyeonho Song, Jiyoung Han, Meeyoung Cha
Proceedings of the Web Conference (WebConf). 2022
<https://doi.org/10.1145/3485447.3512132>
- P10) **Dimensions of Diversity in Human Perceptions of Algorithmic Fairness**
Nina Grgić-Hlača, Gabriel Lima, Adrian Weller, Elissa M. Redmiles
Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO). 2022
<https://doi.org/10.1145/3551624.3555306>
- P11) **Misinformation, Believability, and Vaccine Acceptance Over 40 Countries: Takeaways From the Initial Phase of The COVID-19 Infodemic**
Karandeep Singh*, Gabriel Lima*, Meeyoung Cha, Chiyoung Cha, Juhi Kulshrestha, Yong-Yeol Ahn, Onur Varol
PLOS ONE. 2022
<https://doi.org/10.1371/journal.pone.0263381>
- P12) **QAnon Shifts Into the Mainstream, Remains a Far-Right Ally**
Saifelddeen Zihiri*, Gabriel Lima*, Jiyoung Han, Meeyoung Cha, Wonjae Lee
Heliyon. 2022
<https://doi.org/10.1016/j.heliyon.2022.e08764>
- P13) **How XAI May Be Exploited To Create Seemingly Blameworthy AI**
Gabriel Lima, Nina Grgić-Hlača, Meeyoung Cha, Jin Keun Jeong
Human-Centered Explainable AI (HCXAI) Workshop at the 2022 CHI Conference on Human Factors in Computing Systems. 2022

- P14) **Human Perceptions on Moral Responsibility of AI: A Case Study in AI-Assisted Bail Decision-Making**
Gabriel Lima, Nina Grgić-Hlača, Meeyoung Cha
Proceedings of the CHI Conference on Human Factors in Computing Systems. 2021
<https://doi.org/10.1145/3411764.3445260>
- P15) **The Conflict Between People's Urge to Punish AI and Legal Systems**
Gabriel Lima, Meeyoung Cha, Chihyung Jeon, Kyung Sin Park
Frontiers in Robotics and AI. 2021
<https://doi.org/10.3389/frobt.2021.756242>
- P16) **On the Social-Relational Moral Standing of AI: An Empirical Study Using AI-Generated Art**
Gabriel Lima, Assem Zhunis, Lev Manovich, Meeyoung Cha
Frontiers in Robotics and AI. 2021
<https://doi.org/10.3389/frobt.2021.719944>
- P17) **Prevalence of Misinformation and Factchecks on the COVID-19 Pandemic in 35 Countries: Observational Infodemiology Study**
Meeyoung Cha, Chiyoung Cha, Karandeep Singh, Gabriel Lima, Yong-Yeol Ahn, Juhi Kulshrestha, Onur Varol
JMIR Human Factors. 2021
<https://doi.org/10.2196/23279>
- P18) **Collecting the Public Perception of AI and Robot Rights**
Gabriel Lima, Changyeon Kim, Seungho Ryu, Chihyung Jeon, Meeyoung Cha
Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW). 2020
<https://doi.org/10.1145/3415206>
- P19) **Will Punishing Robots Become Imperative in the Future?**
Gabriel Lima, Chihyung Jeon, Meeyoung Cha, Kyungsin Park
Extended Abstracts of the CHI Conference on Human Factors in Computing Systems. 2020
<https://doi.org/10.1145/3334480.3383006>
- P20) **Descriptive AI Ethics: Collecting and Understanding the Public Opinion**
Gabriel Lima, Meeyoung Cha
Ethics in Design Workshop at the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW). 2020
<https://arxiv.org/abs/2101.05957>
- P21) **Responsible AI and Its Stakeholders**
Gabriel Lima, Meeyoung Cha
Fair and Responsible AI Workshop at 2020 CHI Conference on Human Factors in Computing Systems. 2020
<https://arxiv.org/abs/2004.11434>