

# Gabriel Lima

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## RESEARCH INTERESTS

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I am a computer scientist interested in understanding people's perception of artificial intelligence (AI) systems and how they will morally and legally affect society. I address these research questions through the lens of moral and legal responsibility, and I investigate the possible conflicts between the regulation and development of machines and the public view of these new technologies. My research aims to study how people perceive the moral agency and patency of AI systems to embed their opinion in normative research and policymaking.

## EDUCATION

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### Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, South Korea, Mar. 2021 - Present

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

### Korea Advanced Institute of Science and Technology (KAIST)

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

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

### École Polytechnique Fédérale de Lausanne (EPFL)

Lausanne, Switzerland, Sep. 2019 - Feb. 2020

Exchange Semester at the School of Computer and Communication Sciences.

## SELECTED PUBLICATIONS

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**Gabriel Lima**, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha. "The Conflict Between Explainable and Accountable Decision-Making Algorithms." *Proceedings of the 2022 Conference on Fairness, Accountability, and Transparency (FAccT)*. 2022.

<https://doi.org/10.1145/3531146.3534628>

**Gabriel Lima**, Jiyoung Han, Meeyoung Cha. "Others Are to Blame: A Multi-Faceted View on Whom People Consider Responsible For Online Misinformation." *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. 2022.

<https://doi.org/10.1145/3512953>

Assem Zhunis, **Gabriel Lima**, Hyeonho Song, Jiyoung Han, Meeyoung Cha. "Emotion Bubbles: Emotional Compositions of Online Discourse Before and After the COVID-19 Outbreak." *Proceedings of the Web Conference (WebConf)*. 2022.

<https://doi.org/10.1145/3485447.3512132>

**Gabriel Lima**, Nina Grgić-Hlača, Meeyoung Cha. "Human Perceptions on Moral Responsibility of AI: A Case Study in AI-Assisted Bail Decision-Making." *Proceedings of the CHI Conference on Human Factors in Computing Systems*. 2021.

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

**Gabriel Lima**, Meeyoung Cha, Chihyung Jeon, Kyung Sin Park. "The Conflict Between People's Urge to Punish AI and Legal Systems." *Frontiers in Robotics and AI*. 2021.

<https://doi.org/10.3389/frobt.2021.756242>

**Gabriel Lima**, Assem Zhunis, Lev Manovich, Meeyoung Cha. "On the Social-Relational Moral Standing of AI: An Empirical Study Using AI-Generated Art." *Frontiers in Robotics and AI*. 2021.

<https://doi.org/10.3389/frobt.2021.719944>

**Gabriel Lima**, Changyeon Kim, Seungho Ryu, Chihyung Jeon, Meeyoung Cha. "Collecting the Public Percep-

tion of AI and Robot Rights.” *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. 2020.  
<https://doi.org/10.1145/3415206>

## WORK EXPERIENCES

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

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

## HONORS AND AWARDS

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**Best Student Paper Award** May 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.”

**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.

**Best Presentation Award** Nov. 2018  
Received at the International Conference on Signal Processing and Machine Learning 2018.

**KAIST Graduate/Undergraduate Research Project (GURP) Funding** Jan. 2018  
Received KRW 8,000,000 (USD 6,700) for a research project on classifying emotion from raw speech data.

## ACADEMIC SERVICES

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<b>Reviewer</b>	
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
International Journal of Human-Computer Studies	2022
We Robot Conference	2021

## PUBLICATIONS LIST

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**Gabriel Lima**, Nina Grgić-Hlača, Jin Keun Jeong, Meeyoung Cha. "The Conflict Between Explainable and Accountable Decision-Making Algorithms." *Proceedings of the 2022 Conference on Fairness, Accountability, and Transparency (FAccT)*. 2022.

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Assem Zhunis, **Gabriel Lima**, Hyeonho Song, Jiyoung Han, Meeyoung Cha. "Emotion Bubbles: Emotional Compositions of Online Discourse Before and After the COVID-19 Outbreak." *Proceedings of the Web Conference (WebConf)*. 2022.

<https://doi.org/10.1145/3485447.3512132>

**Gabriel Lima**, Nina Grgić-Hlača, Meeyoung Cha, Jin Keun Jeong. "How XAI May Be Exploited To Create Seemingly Blameworthy AI." *Human-Centered Explainable AI (HCXAI) Workshop at the 2022 CHI Conference on Human Factors in Computing Systems*. 2022.

Karandeep Singh\*, **Gabriel Lima**\*, Meeyoung Cha, Chiyong Cha, Juhi Kulshrestha, Yong-Yeol Ahn, Onur Varol. "Misinformation, Believability, and Vaccine Acceptance Over 40 Countries: Takeaways From the Initial Phase of The COVID-19 Infodemic." *PLOS ONE*. 2022 (\* denotes co-first authorship).

<https://doi.org/10.1371/journal.pone.0263381>

Saifeldeen Zihiri\*, **Gabriel Lima**\*, Jiyoung Han, Meeyoung Cha, Wonjae Lee. "QAnon Shifts Into the Mainstream, Remains a Far-Right Ally." *Heliyon*. 2022 (\* denotes co-first authorship).

<https://doi.org/10.1016/j.heliyon.2022.e08764>

**Gabriel Lima**, Nina Grgić-Hlača, Meeyoung Cha. "Human Perceptions on Moral Responsibility of AI: A Case Study in AI-Assisted Bail Decision-Making." *Proceedings of the CHI Conference on Human Factors in Computing Systems*. 2021.

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

**Gabriel Lima**, Meeyoung Cha, Chihyung Jeon, Kyung Sin Park. "The Conflict Between People's Urge to Punish AI and Legal Systems." *Frontiers in Robotics and AI*. 2021.

<https://doi.org/10.3389/frobt.2021.756242>

**Gabriel Lima**, Assem Zhunis, Lev Manovich, Meeyoung Cha. "On the Social-Relational Moral Standing of AI: An Empirical Study Using AI-Generated Art." *Frontiers in Robotics and AI*. 2021.

<https://doi.org/10.3389/frobt.2021.719944>

Meeyoung Cha, Chiyong Cha, Karandeep Singh, **Gabriel Lima**, Yong-Yeol Ahn, Juhi Kulshrestha, Onur Varol. "Prevalence of Misinformation and Factchecks on the COVID-19 Pandemic in 35 Countries: Observational Infodemiology Study." *JMIR Human Factors*. 2021.

<https://doi.org/10.2196/23279>

**Gabriel Lima**, Meeyoung Cha, Chiyong Cha, Hyeyoung Hwang. "COVID-19 Vaccine Acceptance in the US and UK in the Early Phase of the Pandemic: AI-Generated Vaccines Hesitancy for Minors, and the Role of Governments." *Journal of the Korean Data Analysis Society*. 2021.

<http://doi.org/10.37727/jkdas.2021.23.3.1043>

**Gabriel Lima**, Changyeon Kim, Seungho Ryu, Chihyung Jeon, Meeyoung Cha. "Collecting the Public Perception of AI and Robot Rights." *Proceedings of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. 2020.

<https://doi.org/10.1145/3415206>

**Gabriel Lima**, Chihyung Jeon, Meeyoung Cha, Kyungsin Park. "Will Punishing Robots Become Imperative in the Future?" *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems*. 2020.  
<https://doi.org/10.1145/3334480.3383006>

**Gabriel Lima**, Meeyoung Cha. "Descriptive AI Ethics: Collecting and Understanding the Public Opinion." *Ethics in Design Workshop at the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*. 2020.  
<https://arxiv.org/abs/2101.05957>

**Gabriel Lima**, Meeyoung Cha. "Responsible AI and Its Stakeholders." *Fair and Responsible AI Workshop at 2020 CHI Conference on Human Factors in Computing Systems*. 2020.  
<https://arxiv.org/abs/2004.11434>

**Gabriel Lima**, Sungkyu Park, Meeyoung Cha. "Robots for Class President: Children's Positions Toward AI Robot Rights." *Proceedings of the Korea Computer Congress (KCC)*. 2019.

**Gabriel Lima**, JinYeong Bak. "Speech Emotion Classification using Raw Audio Input and Transcriptions." *Proceedings of the 2018 International Conference on Signal Processing and Machine Learning*. 2018.  
<https://doi.org/10.1145/3297067.3297089>