Gabriel Lima

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Research Interests

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 patiency of AI systems to embed their opinion in normative research and policymaking.

Education

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.

Journal Papers

Karandeep Singh*, **Gabriel Lima***, Meeyoung Cha, Chiyoung 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).

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).

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, Chiyoung 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, Chiyoung 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

Conference Papers

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.

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.

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, 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, 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

Workshop Papers

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

Work Experiences

School of Humanities & Social Sciences, KAIST   *Daejeon, South Korea, Aug. 2021 - Dec, 2021*
    Teaching Assistant of the Scientific Writing class (CC500). Responsible for grading students' research papers and assisting with administrative tasks.

School of Computing, KAIST   *Daejeon, South Korea, Aug. 2021 - Dec. 2021*
    Teaching Assistant of the Data Science Methodology class (CS564). Responsible for preparing and grading class assignments and assisting with administrative tasks.

Honors and Awards

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) 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

Reviewer
We Robot Conference *2021*

INVITED PRESENTATIONS

Conference for Truth and Trust Online 2021 *Oct. 2021*
Invited to present my research on people's attribution of responsibility for online misinformation (published at ACM CSCW, 2022).

Max Planck Institute for Research on Collective Goods *Apr. 2021*
Invited to present my research on people's perception of legal personhood for AI and robots (published at Frontiers in AI and Robotics, 2021).

Conference for Truth and Trust Online 2020 *Oct. 2020*
Invited to present my research on the COVID-19 infodemic and its association with vaccine hesitancy (published at PLOS ONE, 2022).

IT and Law Conference 2020 *Aug. 2020*
Invited to present my research on people's perception of legal personhood for AI and robots (published at Frontiers in AI and Robotics, 2021).

Nokia Bell Labs Students' Day *Nov. 2019*
Invited to present my research on people's perception of legal personhood for AI and robots (published at Frontiers in AI and Robotics, 2021).

REFERENCES

Prof. Meeyoung Cha, mcha@ibs.re.kr
Chief Investigator of the Data Science Group at the Institute for Basic Science (IBS) and Associate Professor at the KAIST School of Computing.

Prof. Jiyoung Han, jiyoung.han@kaist.ac.kr
Assistant Professor at the KAIST Moon Soul Graduate School of Future Strategy.

Dr. Karandeep Singh, karandeepbrar@gmail.com
Senior Researcher at Data Science Group in the Institute for Basic Science (IBS).

Nina Grgić-Hlača, nghlaca@mpi-sws.org
PhD Candidate at the Max Planck Institute for Software Systems (MPI-SWS) and the Max Planck Institute for Research on Collective Goods.