

Giulia Frascaria

PHD CANDIDATE · MEDIA CHANGE AND INNOVATION

Faculty of Arts and Social Sciences, University of Zurich, Andrastrasse 15, 8050, Zurich, Switzerland

✉ g.frascaria@ikmz.uzh.ch | 📧 giuliafrascaria | 📺 Giulia Frascaria | ORCID 0009-0002-7362-5979

Interdisciplinary researcher at the intersection of computer science and communication science, with expertise in computational and interpretive methods applied to the study of emerging digital technologies and human-technology relations. Published and presented her work in top-tier venues in the field of Human-Computer Interaction, Social Sciences and Computer Systems

EDUCATION

University of Zurich

Sep 2022 – Present

PHD IN COMMUNICATION AND MEDIA RESEARCH

- Doctoral candidate in the Media Change and Innovation division
- Member of the Digital Society Initiative (DSI) Excellence Doctoral School

University of Amsterdam

Sep 2020 – Aug 2022

MASTER OF ARTS IN LITERATURE, CULTURE AND SOCIETY

- Major: Slavic Literature
- Final Grade 8/10 (first class)

Vrije Universiteit Amsterdam & University of Amsterdam (Joint Degree)

Sep 2017 – Dec 2021

RESEARCH MASTER OF SCIENCE IN COMPUTER SCIENCE (CUM LAUDE)

- Major: Computer Systems and Security
- Final Grade 8/10 cum laude (first class)

University of Rome Tor Vergata

Sep 2013 – Apr 2017

BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING

- Major: Software and Web Technologies
- Final Grade 104/110 (upper second class)

PUBLICATIONS

PEER-REVIEWED ARTICLES

Frascaria, G., Jaramillo-Dent, D., Latzer, M. 2026. Adoption of Human Augmentation Technologies for Non-Medical Applications: A Systematic Review of Empirical Literature. *Taylor & Francis International Journal of Human-Computer Interaction*

Frascaria, G., Festic, N., Latzer, M. 2026. Evolving User Profiles and Adoption of Cyborg Technologies: Evidence from a Repeated Cross-Sectional Study in Switzerland. *The ACM (Association of Computing Machinery) CHI conference on Human Factors in Computing Systems 2026*

Iosup, A., Versluis, L., Trivedi, A., Van Eyk, E., Toader, L., Van Beek, V., **Frascaria, G.**, Musaafir, A., Talluri, S. 2019. The at-large vision on the design of distributed systems and ecosystems. *IEEE 39th International Conference on Distributed Computing Systems (ICDCS)*

WORKSHOP ARTICLES

Frascaria, G. 2026. Revisiting Alignment for Human-AI Integration: A Proposal for Centered Evaluation. *BiAlign Workshop Proceedings. The ACM (Association of Computing Machinery) CHI conference on Human Factors in Computing Systems 2026*

Frascaria, G. 2020. Griffin: A Storage Service for Granular Edge Applications. *Proceedings of the 21st International Middleware Conference Doctoral Symposium*

MANUSCRIPTS IN PREPARATION

Frascaria, G., Jaramillo-Dent, D., Latzer, M. Cyborg Imaginaries and AI: A Computational Grounded Theory of Online Pioneer Community Discussions on Human Augmentation.

ONGOING PROJECTS

Frascaria, G., Jaramillo-Dent, D., Latzer, M. Through the AI Looking Glass: Mapping AI-Generated Cyborg Visuality Through Visual Topic Modelling.

PREPRINTS

Lukken, C., **Frascaria, G.**, Trivedi, A. 2021. ZCSD: a computational storage device over zoned namespaces (ZNS) ssds

Frascaria, G., Trivedi, A., Wang, L 2021. A case for a programmable edge storage middleware

DOCTORAL DISSERTATION

Frascaria, G. (working title) Cyborgization as Indicator of Transhumanist Techno-Religious Digitalization: a Multi-Method Study of Imaginaries, Visual Culture, and the Diffusion of Human Augmentation Technologies. *Doctoral dissertation, University of Zurich.*

Frascaria, G. 2022. Games of Chance: Or the Ideology of Luck Dostoevsky's The Gambler and the Technologies of Today. *MA thesis, University of Amsterdam.*

Frascaria, G. 2021. e²bpf: an evaluation of in-kernel data processing with eBPF. *MSc thesis, Vrije Universiteit Amsterdam.*

RESEARCH METHODS AND TECHNICAL SKILLS

Methodological Approaches: mixed-methods research design, computational grounded theory, systematic literature review, quantitative survey research

Computational Analysis and Modeling: topic modeling (text and visual), network analysis, web scraping

Technical Expertise: deep neural networks, graph neural networks, cloud computing, operating systems and networked systems design

Programming & Experimental Skills: Python, R, Linux systems, experimental performance analysis

DevOps & Web Development: Git, TypeScript, HTML/CSS, Docker, Ansible, Vagrant

PRESENTATIONS

CONFERENCE PRESENTATIONS

Frascaria, G., Jaramillo-Dent, D., Latzer, M. 2025. Cyborg Imaginaries: A Computational Grounded Theory of Online Pioneer Community Discussions on Human Augmentation. Association of Internet Researchers (AoIR) Annual Conference.

Frascaria, G., Jaramillo-Dent, D., Latzer, M. 2025. Adoption of Human Augmentation Technologies for Non-Medical Applications: A Systematic Review of Empirical Literature. IAMCR Annual Conference.

Frascaria, G. 2024. Adoption of Human Augmentation Technologies for Non-Medical Applications: A Systematic Review of Empirical Literature. Mobile Communications Research Escalator, ICA Annual Conference.

Frascaria, G., Trivedi, A. 2021. In-Kernel Data Processing with eBPF. ICTOpen

Frascaria, G., Trivedi, A. 2020. Open Source Summit 2020 Speaker The Linux Foundation The Linux Foundation Presentation: BPF Tales, or why did I recompile the kernel just to average numbers? Paper presented at the Open Source Summit Annual Conference 2020.

Frascaria, G. 2020. Can BPF save us from the data deluge? BPF summit

INVITED TALKS

Frascaria, G. 2025. Upgrading Humanity. *Invited Presentation At Nachtaktiv Museum Night*

PROFESSIONAL EXPERIENCE

- CNIT (National Inter-University Consortium for Telecommunications)** Apr 2023 – Nov 2024
 EXPERT RESEARCH COLLABORATOR
 • Research on optimization of microservice-based cloud applications using deep neural networks and performance modeling.
 • Focus on system-level efficiency, scalability, and experimental evaluation.
- Oracle Labs Zurich** Nov 2021 – Mar 2022
 RESEARCH INTERN
 • Research on eBPF-based approaches to operating system scheduling optimization.
 • Designed and conducted experimental system-level performance analyses.
- MonetDB, Amsterdam** Feb 2020 – Sep 2020
 SOFTWARE DEVELOPER AND TECHNICAL WRITER
 • Core database developer for MonetDB, and responsible for software documentation and technical blog articles.
- Fireeye (now Google Mandiant)** Jan 2018 – Dec 2018
 STUDENT INTERN
 • Malware analysis using static and dynamic taint analysis techniques for security auditing service to contracting companies.

TEACHING EXPERIENCE

COURSE DESIGN AND INSTRUCTION

- University of Zurich** Aug 2023 – Present
 INSTRUCTOR / LECTURER
 • *Bachelor level*: “Technology and Its Imaginaries” (Spring 2026); “From Human to Cyborg” (Fall 2025)
 • *Master level*: “How Digitalization and AI Are Changing Our Society” (Fall 2025); “Understanding Media Change” (Fall 2023)

TUTOR AND TEACHING ASSISTANCE

- Vrije Universiteit Amsterdam** Nov 2017 – Sep 2021
 STUDENT RESEARCH AND TEACHING ASSISTANT
 • *Bachelor level*: “Operating Systems” (Fall 2017); “Compiler Construction” (Fall 2017); “Computer Networks” (Fall 2018-2018); “Computer Architecture” (Spring 2018-2019)
 • *Master level*: “Distributed Systems” (Fall 2020); “Storage Systems” (Spring 2021)

SUPERVISION

- Vrije Universiteit Amsterdam** 2022
 M.SC. THESIS CO-SUPERVISOR
 Corne Lukken. OpenCSD: Log-Structured Filesystem Enabled Computational Storage Device Platform

SERVICE

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| ongoing | Reviewer , Reviewer in multiple conferences and journals (ACM CHI, ICA, IEEE TNSM) | |
| ongoing | Member , Member in multiple associations (ICA, ECREA, AoIR, IAMCR, sigchi) | |
| 2025 | Nachtaktiv Museum Night , Invited Presenter | Zurich |
| 2021 | Artifact Evaluation Committee , member Eurosys 2021 Evaluation of software artifacts for the papers submitted in the EuroSys conference | |
| 2018-2019 | Volunteer , GoTo technical conference student volunteer | Amsterdam |
| 2016-2017 | International Student Ambassador , Helping International students and prospective applicants | Amsterdam |

SCHOLARSHIPS AND AWARDS

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| 2022–2026 | Digital Society Initiative Doctoral Scholarship , Competitive individual funding for doctoral research (215.000 CHF) | University of Zurich |
| 2019 | Linux Foundation Diversity Scholarship , Competitive travel and conference grant for Open Source Summit | Lyon |
| 2017 | Bridgestone Open Innovation Program , 2nd place, competitive innovative application competition (team of 2) | Rome |

PERSONAL SKILLS

Languages: Italian (native), English (fluent)