

Dilara Keküllüođlu

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Research Interest

My research interests include responsible artificial intelligence, privacy, natural language processing, human-computer interaction, and computational social science.

Current Position

2024.09 – **Assistant Professor**, *Computer Science and Engineering*, SABANCI UNIVERSITY, Rm.1089, Faculty of Engineering and Natural Sciences, Tuzla, İstanbul, 34956, Türkiye.

Education

2018–2022 **PhD in Computer Science (Informatics)**, *Institute for Language, Cognition and Communication*, University of Edinburgh, Edinburgh.

Analysing Privacy in Online Social Media

Supervised by Walid Magdy and Kami Vaniea

Fully funded by UK Research and Innovation with University of Edinburgh.

2015–2017 **Masters of Computer Engineering**, *Bogazici University*, Istanbul.

Focuses on AI and MAS. Thesis topic : Privacy Negotiation in Online Social Networks

2009–2015 **Bachelor of Computer Engineering**, *Bogazici University*, Istanbul.

2013 **Bachelor of Computer Science**, *Hanyang University*, Seoul.

Exchange Student for one semester

Research Visit

2021 Summer **Visiting Scholar**, *Max Planck Institute for Security and Privacy*, Bochum.

Privacy Perceptions of Turkish Startup Developers, Supervised by Yasemin Acar

Publications

2023 **D. Keküllüođlu**, K. Vaniea, M.K. Wolters, and W. Magdy. Twitter has a Binary Privacy Setting, are Users Aware of How It Works? *Proceedings of the ACM on Human-Computer Interaction (CSCW'23)*. ACM, 2023.

2023 **D. Keküllüođlu** and Y. Acar. "We are a startup to the core": A qualitative interview study on the security and privacy development practices in Turkish software startups. *IEEE Symposium on Security and Privacy (SP'23)*. 2023.

2022 **D. Keküllüođlu**, K. Vaniea, and W. Magdy. Understanding Privacy Switching Behaviour on Twitter. *Proceedings of the 2022 CHI conference on human factors in computing systems (CHI'22)*. ACM, 2022.

- 2022 **D. Keküllüoğlu**, W. Magdy, and K. Vaniea. From an Authentication Question to a Public Social Event: Characterizing Birthday Sharing on Twitter. *International AAAI Conference on Weblogs and Social Media (ICWSM'22)*. ACM, 2022.
- 2021 N. Meng, **D. Keküllüoğlu**, and K. Vaniea. Owning and Sharing: Privacy Perceptions of Smart Speaker Users. *Proceedings of the ACM on Human-Computer Interaction (CSCW'21)*. ACM, 2021.
- 2020 **D. Keküllüoğlu**, W. Magdy, and K. Vaniea. Analysing Privacy Leakage of Life Events on Twitter. *12th ACM Conference on Web Science (WebSci'20)*. ACM, 2020.
- 2018 **D. Keküllüoğlu**, N. Kökciyan, and P. Yolum. Preserving Privacy as Social Responsibility in Online Social Networks. *Transactions on Internet Technology (TOIT)*. ACM, 2018.

Short papers, workshop papers, posters, and demos

- 2024 **D. Keküllüoğlu**, M. Rovatsos, and N. Kokciyan. Answerable sociotechnical systems *27th European Conference on Artificial Intelligence (ECAI '24)*. IOS Press, 2024.
- 2023 **D. Keküllüoğlu**, L. Hatherall, N. Sethi, T. Vierkant, S. Vallor, N. Kokciyan, and M. Rovatsos. Answerability by Design in Sociotechnical Systems *Workshop on Supporting User Engagement in Testing, Auditing, and Contesting AI. (CSCW User AI Auditing '23)*.
- 2023 L. Hatherall, **D. Keküllüoğlu**, N. Kokciyan, M. Rovatsos, N. Sethi, T. Vierkant, and S. Vallor. Responsible Agency Through Answerability: Cultivating the Moral Ecology of Trustworthy Autonomous Systems (Poster Paper) *Proceedings of the First International Symposium on Trustworthy Autonomous Systems (TAS' 23)*.
- 2022 N. Meng, **D. Keküllüoğlu**, and K. Vaniea. Owning and Sharing: Privacy Perceptions of Smart Speaker Users (Poster Paper) *Symposium on Usable Privacy and Security (SOUPS'22)*.
- 2020 **D. Keküllüoğlu**, W. Magdy, and K. Vaniea. Happy 18th Birthday! Measuring Birth Date Disclosure on Twitter (Extended Abstract). *6th International Conference on Computational Social Science (IC²S²'20)*. 2020.
- 2016 **D. Keküllüoğlu**, N. Kökciyan, and P. Yolum. Strategies for Privacy Negotiation in Online Social Networks (Short Paper). *European Conference on Artificial Intelligence (ECAI'16)*, pp. 1608-1609, 2016.
- 2016 **D. Keküllüoğlu**, N. Kökciyan, and P. Yolum. Strategies for Privacy Negotiation in Online Social Networks. *International Workshop on AI for Privacy and Security*. ACM, 2016.
- 2016 **D. Keküllüoğlu**, N. Kökciyan, and P. Yolum. A Tool for Negotiating Privacy Constraints in Online Social Networks (Demo Paper). *European Conference on Artificial Intelligence (ECAI)*. 2016.

Experience

- 2022.06 – **Post-doctoral Research Associate**, *Responsible AI*, UNIVERSITY OF EDINBURGH, UK, Old College, South Bridge, Edinburgh EH8 9YL.
2024.06 Making Systems Answer: Dialogical Design as a Bridge for Responsibility Gaps in Trustworthy Autonomous Systems
Responsibilities:
- Formal representation language for responsibility-related questions and answers
 - Computational framework for bridging responsibility gaps
 - Web-based dialogical platform as a participatory tool
- 2023 **MSc Supervisor**, *Project: Informing People about Self-Disclosure and Privacy Violations*, University of Edinburgh.
- 2023 **Guest Lecture**, *Human Factors of Security and Privacy*, Paderborn University.
- 2023 **Guest Lecture**, *Usable Security and Privacy*, University of Edinburgh.
- 2020 & 2021 **Teaching Support**, *Text Technologies for Data Science*, Marker, University of Edinburgh.
- 2020 & 2021 **Section Leader**, *Code in Place*, Virtual.
Mentor in five week Introduction to Python programming course given by Stanford.
- 2019-2020 **Resident Assistant**, *ResLife*, University of Edinburgh.
Academic Team
Responsibilities:
- Team of 20+ resident assistants responsible for around 1000 students.
 - Personally responsible for 30 residents, supporting them logistically and socially
 - Organizing events for the residents as teams - My focus was academic events
- 2017.03– **Software Engineer**, *POINTR INDOOR NAVIGATION SOLUTIONS*, Istanbul.
2018.08 Android Core SDK
Responsibilities:
- Expanding and improving the Android SDK that customers use.
 - Enabling the data analysis for the localization support.
 - Improve map and navigation algorithms.
- 2015 **Teacher**, *Stanford - Bogazici Programming Camp*, Istanbul.
Taught approximately 80 high school students to learn how to program in Java with a team of 15 people for two weeks.
- Helping students to understand data structures and the basics of Java.
 - Cooperating and communicating with my teaching team members to solve problems about the course and students.

Service

Program Committee

- 2024 **ECAI**, *European Conference on Artificial Intelligence*.
- 2022, 2023 **CHI LBW**, *Computer Human Interaction, Late Breaking Work*, AC.
- 2022, 2023 **CySoc**, *International Workshop on Cyber Social Threats*.
- 2021 **WebSci**, *ACM Conference on Web Science*.

Reviewer

- 2024 **TOCHI**, *ACM Transactions on Computer-Human Interaction*.

- 2023 **AAMAS**, *Autonomous Agents and Multiagent Systems*.
- 2021-24 **CHI**, *Computer Human Interaction*.
- 2021 **CHI LBW**, *Computer Human Interaction, Late Breaking Work*.
- 2020, 2021 **CSCW**, *Computer Supported Cooperative Work and Social Computing*.
- 2020 **IEEE Internet Computing**.

Student Volunteer

- 2021 **CHI**, *Computer Human Interaction*, Captain.
- 2020 **CSCW**, *Computer Supported Cooperative Work and Social Computing*, Captain.
- 2019 **SOUPS**, *Symposium On Usable Privacy and Security*.
- 2015 **AAMAS**, *Autonomous Agents and Multiagent Systems*.

Misc

- 2023 **Talk**, *Analysing User Behaviour and Assisting Users in Ever Advancing Technology*, Ozyegin University and Koc University.
- 2022-2023 **Mentor**, *Postgraduate Mentorship Programme*, Association of Turkish Alumni and Students in Scotland.
- 2021-2022 **Coordinator**, *SMASH Reading Group*, University of Edinburgh.
- 2020 **Guide**, *inzva Deep Learning Study Group*, Natural Language Processing, inzva.
- 2017 **Mentor**, *Django Girls Istanbul*.

Computer skills

- Advanced JAVA, PYTHON, R - I have confidence in these languages.
- Intermediate C++, MATLAB, PROLOG, OWL - I am comfortable with these languages.

Summer School, Grants, and Awards

- 2023 Gary Marsden Travel Grant to attend CSCW 2023, USA
- 2020 Edinburgh Award, Resident Assistant, University of Edinburgh
- 2019 Summer Institute in Computational Social Science (SICSS) - Istanbul
- 2019 Athena Hack - Best Performing University Team Award
- 2017 GRE - 331 (170Q-161V), TOEFL - 109
- 2016 TUBITAK Travel Grant for attendance at ECAI 2016, The Hague, the Netherlands
- 2014 JLPT (Japanese Government Language Proficiency Test) - N2 (Out of 5 levels, 1 being the highest. I acquired the level 2.)
- 2013 Istanbul Japanese Speaking Contest A Group - Winner
- 2004-5 Four gold medals from various Math Olympiads in Turkey including one from TUBITAK(National Science and Research institute)

Languages

- Turkish **Mothertongue**
- English **Advanced**

Japanese **Pre-Advanced** *Fluent in daily conversations, Intermediate at reading and writing*
Korean **Beginner** *Lived in Korea for five months, can hold daily conversations*

References

- Postdoc PI **Nadin Kokciyan**, *nadin.kokciyan@ed.ac.uk*, <https://homepages.inf.ed.ac.uk/nkokciya/>.
- PhD Advisor **Walid Magdy**, *wmagdy@inf.ed.ac.uk*, <https://homepages.inf.ed.ac.uk/wmagdy/>.
- PhD Advisor **Kami Vaniea**, *kami.vaniea@uwaterloo.ca*, <https://vaniea.com/>.
- Research Visit Advisor **Yasemin Acar**, *acar@sec.uni-hannover.de*, <https://yaseminacar.de/>.