Dilara Keküllüoğlu

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Research Interest

My research interests include human-computer interaction, responsible artificial intelligence, privacy, computational social science, and multi-agent systems.

Current Position

2022.06 – 2024.05 **Post-doctoral Research Associate**, University of Edinburgh, UK.
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

Education

2018–2022 **PhD in Informatics**, *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

Full conference papers

2023 **D. Keküllüoğlu**, K. Vaniea, M.K. Wolters, and W. Magdy. Twitter has a Binary Privacy Setting, are Users Aware of How It Works? *Computer Supported Cooperative Work and Social Computing (CSCW'23)*. ACM, 2023.

2023 **D. Keküllüoğlu** 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. Keküllüoğlu**, 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. *Computer Supported Cooperative Work and Social Computing (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.

Journal papers

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

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 (IC^2S^2'20)*. 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

2023   **MSc Supervisor**, *Project: Informing People about Self-Disclosure and Privacy Violations*, University of Edinburgh.

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– 2018.08   **Software Engineer**, Pointr Indoor Navigation Solutions, Istanbul.
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

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

2023   **AAMAS**, *Autonomous Agents and Multiagent Systems*.

2021-23   **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
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 - These are the languages that I am most comfortable with and have confidence. |
| 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/`.