

Ece Gumusel, LL.M., Ph.D.

Assistant Professor | iSchool, Rutgers University | ORCID: 0009-0009-6438-9557 | ece.g@rutgers.edu

RESEARCH INTERESTS

Usable Privacy and Security; Human-Computer Interaction; Ethics, Policy, & Governance; Legal Compliance

EDUCATION

- **Indiana University-Bloomington, School of Informatics, Computing, and Engineering** April 2025
Doctor of Philosophy in Information Science (Advisor: Dr. Howard Rosenbaum) Bloomington, IN
 - Thesis: “User Privacy Dynamics in Conversational Text-Based AI Chatbots: Understanding Harms, Risks, and Strategies for Mitigation”
- **University of Illinois Urbana-Champaign, College of Law** May 2019
Master of Laws in Intellectual Property and Technology Law Champaign, IL
- **Başkent University, Faculty of Law** June 2017
Bachelor of Laws Ankara, Türkiye

ACADEMIC APPOINTMENTS

- **Assistant Professor (Tenure-Track)** July 2026 – Present
iSchool, Rutgers University–New Brunswick
- **Postdoctoral Research Associate** August 2025 – July 2026
iSchool, University of Illinois Urbana-Champaign (Advisor: Dr. Madelyn R. Sanfilippo)
- **Associate Instructor** August 2021 – May 2025
Indiana University-Bloomington
- **Graduate Research Assistant** August 2022 – May 2023
Indiana University-Bloomington (Advisor: Dr. Inna Kouper)
 - Under the funded project by Institute of Museum of Library Service, LG-246400-OLS-20 - Indiana University \$382,128
- **Graduate Research Assistant** May 2019 – April 2020
University of Illinois College of Law (Advisor: Prof. Faye E. Jones)

GRANT PROPOSALS

- **Rejected: Robert Wood Johnson Foundation (\$310,040, Co-PI)** PI: Dr. Madelyn R. Sanfilippo
Invisible Barriers in AI: Safety, Privacy, and Usability for Individuals with Mental-Health Needs Rejected in February 2026

AWARDS

- **Facilitating Learning Excellence Award (Illinois Student Council)** April 2026
University of Illinois Urbana Champaign
- **USENIX Travel Award — \$1500 (USENIX SOUPS)** July 2025
USENIX
- **SLIS Travel Award — \$750 (Indiana University-Bloomington)** June & November 2024
School of Informatics, Computing, and Engineering, Indiana University-Bloomington
- **FACET Honorarium Award — \$1,000** December 2023
Indiana University-Bloomington
- **James D. Fielding Student Advocacy Award — \$2,018** August 2023
Indiana University-Bloomington
- **Luddy Outstanding Service Award** July 2023
School of Informatics, Computing, and Engineering, Indiana University-Bloomington
- **UROC@Luddy Research Mentorship — \$1,000** January 2023 & September 2022
School of Informatics, Computing, and Engineering, Indiana University-Bloomington
- **SLIS Doctoral Fellowship — \$400** September 2022
School of Informatics, Computing, and Engineering, Indiana University-Bloomington
- **Grace Hopper Celebration Student Award** Selected 1 of 20 STEM students
School of Informatics, Computing, and Engineering, Indiana University-Bloomington June 2022
- **Velocity Conference Student Award** Selected 1 of 12 STEM & Business students
Kelley School of Business, Indiana University-Bloomington January 2022
- **Associate Instructor Award** August 2021
School of Informatics, Computing, and Engineering, Indiana University-Bloomington
- **2nd Team — LL.M. Negotiation Competition** October 2018
University of Illinois College of Law
- **Tuition Merit Scholarship** August 2018
University of Illinois College of Law

Book

- B** Sanfilippo, M., **Gumusel, E.**, & Madison, M. (Eds.) (in press) *Governing Artificial Intelligence as Knowledge Commons*. Cambridge University Press.

Peer Reviewed

*Indicates equal contribution

- C** Haizel, I., Trevino, J., Sanfilippo, M., & **Gumusel, E.** *Polycentric Governance Gaps in U.S. AI and Privacy Law*. (Accepted to TPRC 2026).
- C** Hassan, M., Yener, R., **Gumusel, E.**, & Bashir, M.. *AI Healthcare Chatbots as Information Infrastructure: A Large-Scale Study of User-Reported Breakdowns*. (Accepted to ASIS&T 2026)
- C** Alharbi, F.*, **Gumusel, E.***, Xing, L., & Liao, X. (2026) *Assessing Privacy Compliance Awareness and Practices Among Mobile Third-party Library Developers*. (Accepted to 33rd ACM Conference on Computer and Communications Security (CCS) 2026).
- C** **Gumusel, E.** (2026) *Striking for Privacy: Contextualizing Worker Privacy, Masking, and the Governance of Labor Actions*. (Accepted to be workshopped at Privacy Law Scholar Conference 2026).
- C** Shen, H., Chen, J. E., **Gumusel, E.**, Liu, Z., Wei, M., Jiang, W., Lamba, M., & Zhou, K. Z (2026). *Automation at Odds with User Experience: Understanding Public Perceptions of Customer Service Chatbots in China*. 29th International Conference on Computer Supported Cooperative Work in Design (CSCWD). IEEE. May 13–15, 2026, Fuzhou, China.
- C** **Gumusel, E.**, Yan, Y., & Otenen, E. (2026) *From Awareness to Practice: A Survey of U.S. Users' Privacy Perceptions in LLM Chatbots*. Symposium on Usable Security and Privacy (USEC) 2026 (Co-located with NDSS Symposium 2026). February 27, 2026, San Diego, CA. <https://dx.doi.org/10.14722/usec.2026.23005>
- C** Chen, J. E., **Gumusel, E.**, Sutton, J., Zhou, K., & Oh, S. (2026). *Regulating Deceptive Design: A Comparative Analysis of U.S. and EU Laws on Dark Patterns*. Hawaii International Conference on System Sciences (HICSS) 2026. January 6-9, 2026, Maui, HI. <https://hdl.handle.net/10125/111943>
- C** Yener, R., Chen, G.-H., **Gumusel, E.**, & Bashir, M. (2025). *Can I Trust This Chatbot? Assessing User Privacy in AI-Healthcare Chatbot Applications*. 88th Annual Meeting of the Association for Information Science and Technology (ASIS&T). November 14-18, 2025, Washington, DC. <https://doi.org/10.1002/pra2.1299>
- W** **Gumusel, E.** (2025). *Multiverse Privacy Theory for Contextual Risks in Complex User-AI Interactions*. Societal & User-Centered Privacy in AI (SUPA) at USENIX Symposium on Usable Privacy and Security (SOUPS) 2025, August 10–12, 2025, Seattle, WA. Available at <https://arxiv.org/pdf/2506.10042>
- J** Zhou, K., Choudhry, A., **Gumusel, E.**, & Sanfilippo, M. (2025). "Sora is Incredible and Scary": Emerging Governance Challenges of Text-to-Video Generative AI Models. *Information Research an International Electronic Journal*, 30(iConf), 508-522. <https://doi.org/10.47989/ir30iConf47290>
- J** **Gumusel, E.** (2025). *Exploring Adoption of Privacy Enhancing Technologies among LGBTQ+ LIS Students in the US: Motivations and Challenges*. *Journal of Education for Library and Information Science*. <https://doi.org/10.3138/jelis-2023-0090>
- J** **Gumusel, E.** (2025). *A literature review of user privacy concerns in conversational chatbots: A social informatics approach*. *Journal of the Association for Information Science and Technology*. <https://doi.org/10.1002/asi.24898>
- C** **Gumusel, E.***, Xiao, Y.*, Qin, Y., Qin, J., & Liao, X. (2024). *Understanding Legal Professionals' Practices and Expectations in Data Breach Incident Reporting*. 31st ACM Conference on Computer and Communications Security (CCS). October 14-18, 2024, Salt Lake City, USA. <https://doi.org/10.1145/3658644.3670371>
- C** Wu, Y., Wang, C., **Gumusel, E.**, & Liu, X. (2024). *Knowledge-Infused Legal Wisdom: Navigating LLM Consultation through the Lens of Diagnostics and Positive-Unlabeled Reinforcement Learning*. Findings of the Association for Computational Linguistics ACL 2024, 15542–15555, Bangkok, Thailand and virtual meeting. Association for Computational Linguistics. <https://doi.org/10.18653/v1/2024.findings-acl.918>
- J** Zhou, K., Killhoffer, Z., Sanfilippo, M., Underwood, T., **Gumusel, E.**, et al. (2024). *Ethics, Governance, and User Mental Models for Large Language Models in Computing Education*. XRDS: Crossroads, The ACM Magazine for Students 31(1), 46–51. <https://doi.org/10.1145/3688089>
- C** **Gumusel, E.**, Malic, V. Q., Donaldson, D. R., Ashley, K. D., & Liu, X. (2022). *An Annotation Schema for the Detection of Social Bias in Legal Text Corpora*. *iConference 2022 Proceedings* (pp. 185-194). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-96957-8_17
- C** **Gumusel, E.** (2022). Preliminary Analysis of Data Subject Right Effectiveness and Blockages in Industry. *iConference 2022 Proceedings*. <https://www.ideals.illinois.edu/items/123097>

In Review

- R** **Gumusel, E.** & Sanfilippo, M. *Multiverse Privacy Theory: A Probabilistic Framework for Situated Privacy Under Uncertainty* (Submitted to ACM CCS 2026)

- R Navid, S. Z., **Gumusel, E.**, Chen, J., Koch, S., Rahaman, S., & Hasan, R. *Investigating the Impact of Regulation on Privacy Behaviors of Android Applications*. (Submitted to ACM CCS 2026).
- R **Gumusel, E.** & Yan, Y. *Designing for Disclosure: Effects of Conversational Tone and Gender Visual Cues on Personal Data Sharing in LLM Chatbots* (Submitted to ACM CUI 2026)
- R Otenen, E., **Gumusel, E.**, Jain, P., Bosco, C., Gray, C., & Stolterman, E. "I Know It Doesn't Care About Me": What Can We Learn from Emotionally and Personally Driven Daily Use of LLM-based Conversational Agents? (Submitted to ACM CUI 2026)
- R **Gumusel, E.***, Yener, R.*, Chen, J.E.*, Kang, G., Yan, Y., & Bashir, M., *From Posts to Platforms: Auditing Interface Privacy in LLM Chatbots* (Submitted to SOUPS 2026)
- R Shrey, A., Zhang, W., **Gumusel, E.**, & Habib, H., *Risk vs. Reward: Supporting Practitioners' Understanding of LLM Privacy Risks* (Submitted to SOUPS 2026)
- R Shan, W., **Gumusel, E.**, & Sanfilippo, M., *Industry Communication of AI Governance Preferences*. (Submitted to TPRC 2026).

Thesis

- T **Gumusel, E.** (2025) *User Privacy Dynamics in Conversational Text-Based AI Chatbots: Understanding Harms, Risks, and Strategies for Mitigation*. Doctoral Dissertation, Indiana University, ProQuest 31938996.

Other

- J **Gumusel, E.** (2024). *Are chatbots safe? A look at user privacy concerns*. Information Matters, 4(10). [SSRN's Top Ten download list (60 days) for: Educational Technology, Media & Library Science eJournal 🏆]
https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4995850
- P **Gumusel, E.**, Zhou, K., & Sanfilippo, M. (2024). *User Privacy Harms and Risks in Conversational AI: A Proposed Framework*. Preprint arXiv. Available at: <https://arxiv.org/abs/2402.09716>.
- W **Gumusel, E.** et al. (2022). *Response to the OSTP RFI on Advancing Privacy Technologies*. The Rise of Privacy Tech. <https://www.nitrd.gov/rfi/2022/87-fr-35250/The-Rise-of-Privacy-Tech-PET-RFI-Response-2022.pdf>
- W Camp, L. J., Gopavaram, S., Dev, J., & **Gumusel, E.** (2021). *Lessons for Labeling from Risk Communication*. NIST Workshop on Cybersecurity Labeling for IoT Devices and Software. https://www.nist.gov/system/files/documents/2021/11/04/IndianaUniversity-NIST_Lessons_for_Labeling_from_Risk_Communication.pdf
- W Dev, J., Gopavaram, S., **Gumusel, E.**, & Camp, L. J. (2021). *A Modular Approach to Labeling IoT Devices and Software*. NIST Workshop on Cybersecurity Labeling. https://www.nist.gov/system/files/documents/2021/11/04/IndianaUniversity-NIST_Modular_Labels.pdf
- W Gopavaram, S., Dev, J., **Gumusel, E.**, & Camp, L. J. (2021). *Going Beyond Labels*. NIST Workshop on Cybersecurity Labeling. <https://www.nist.gov/system/files/documents/2021/10/29/36-Jean%20Camp%20-%20LabelComments.pdf>

PRESENTATIONS

P=PEER REVIEWED, I=INVITED

Peer Reviewed

- P Choi, B., Wong, S., Cattlin, J., Tsia, T., **Gumusel, E.**, & Bilal, D. Information Behavior Research and Practice in the Age of Human-Centered Artificial Intelligence. *Proceedings of 88th Annual Meeting of the Association for Information Science and Technology (ASIS&T)*. Crystal City, VA, November 2025.
- P Bishop, S., Balasubramaniam, G., Drayton, M., & **Gumusel, E.** Think Like a Privacy Pro: Privacy in Practice, *IT Pro Forum*, University of Illinois Urbana-Champaign, June 2025.
- P Rosenbaum, H., **Gumusel, E.**, Sanfilippo, M., Sweeney, M., Sawyer, S., & Zhou, K. (2024). Exploring Some Impacts of Advances in Artificial Intelligence: A Social Informatics Approach. *Proceedings of 87th Annual Meeting of the Association for Information Science and Technology (ASIS&T)*, 61(1), 818-821. Calgary, Canada, October 2024. <https://doi.org/10.1002/pra2.1109>
- P **Gumusel, E.** Methodological Approaches: Examining User Privacy Dynamics in Conversational AI Chatbots, Lightning Talk, Qualitative Research Group, *iConference 2024 Proceedings*, Virtual, April 2024.
- P Petters, J. (presenter), Kouper, I., Lindquist, T., & **Gumusel, E.** Diversity in Data: Lessons from Interdisciplinary Practices, 48th Annual Conference of International Association for Social Science Information Service and Technology (IASSIST), Philadelphia, PA, June 2023.
- P **Gumusel, E.** Empowering Privacy-Centered Practices for Diverse Communities. Indiana University Bloomington, October 2023. <https://scholarworks.iu.edu/dspace/handle/2022/29425>
- P **Gumusel, E.** Exploring Privacy and Security Tool Adoption among LGBTQ+ Professionals in Information Science. 38th Annual NASIG Conference, Pittsburgh, PA, May 2023.
- P Gopavaram, S. (presenter), **Gumusel, E.**, Caven, P., Dev, J., & Camp, L. J. Creating Effective Labels, 2022 USENIX Conference on Privacy Engineering Practice and Respect (PEPR), Santa Clara, CA, June 2022. <https://www.usenix.org/conference/pepr22/presentation/gopavaram>
- P **Gumusel, E.** & Cronk, R. J. Models of Privacy Norms. DEF CON 28 Safe Mode Ethics Village, August 2020.

Invited

- I Gumusel, E.**, Wrobel, M., & Drayton, M. Keep IT Private in an AI World. Caffeine Break, Technology Services, University of Illinois Urbana-Champaign, May 2025.
- I Gumusel, E.** User Privacy Dynamics in Conversational Text-Based AI Chatbots: Understanding Harms, Risks, and Strategies for Mitigation. College of Law, University of Illinois Urbana-Champaign, April 2025. [Guest Lecturer: I790 Advanced Privacy Law]
- I Gumusel, E.** Bridging Privacy, Trust, and Governance in Conversational AI Systems. School of Information Technology, University of Cincinnati, April 2025.
- I Gumusel, E.** Bridging Privacy, Trust, and Governance in Conversational AI Systems. College of Computing and Informatics, CyberDNA Center, University of North Carolina at Charlotte, March 2025.
- I Tidrick, C., Jones, P., Vance, N., Curtin, M., & Gumusel, E.** The Human Side of AI: Privacy, Ethics and Equity in Higher Education, Privacy Everywhere Conference 2025, University of Illinois Urbana-Champaign, January 2025. <https://cybersecurity.illinois.edu/2025-privacy-everywhere-conference/>
- I Gumusel, E.** Understanding Legal Professionals' Practices and Expectations in Data Breach Incident Reporting. Luddy School of Informatics, Computing, and Engineering, Indiana University Bloomington, October 2024. [Guest Lecturer: CSCI-B 649 Data Driven Security & Privacy]
- I Gumusel, E.** User Privacy and Conversational Chatbots. School of Information Sciences, University of Illinois Urbana-Champaign, July 2024. [Guest Lecturer: I226 Human-Computer Interaction]
- I Lee, C., Curtin, M., & Gumusel, E.** Balancing AI Innovation and Privacy. Privacy Everywhere Conference 2024, University of Illinois Urbana-Champaign, January 2024. <https://cybersecurity.illinois.edu/2024-privacy-everywhere-conference/>
- I Gumusel, E.** & Drayton, M. Privacy Implications in AI. University of Illinois Urbana-Champaign, November 2023.
- I Francisco, M., Muralidharan, R., & Gumusel, E.** Modeling Future Careers: A Large Language Collaborative Tool for Scaffolding Problem Discovery and Research Planning for Transitioning Students. FACET. Indiana University Bloomington, November 2023.
- I Cronk, R. J. & Gumusel, E.** What is Privacy by Design and How it can Help Your Organization? American Bar Association (ABA) Science & Technology Law Section, March 2021.

PRIVACY WIKI

Created the open-source **Privacy Wiki** (<https://privacy.wiki/>), sponsored by the Institute of Operational Privacy Design (2020).

MEDIA PRESS

Interviewed and Worked Cited in The Herald-Times, March 7, 2022. <https://www.heraldtimesonline.com/story/news/local/2022/03/07/privacy-policy-qr-code-online-food-ordering-data/6723609001/>

TEACHING

- **Instructor**
School of Information Sciences, University of Illinois Urbana-Champaign August 2025 – August 2026
 - IS467 Ethics and Policy for Data Science, Spring 2026
 - IS204 Research Design for Information Sciences, Fall 2025
- **Associate Instructor**
School of Informatics, Computing, and Engineering, Indiana University-Bloomington August 2021 – January 2025
 - ILS-Z511 Database Design, Fall 2024
 - ILS-Z566 Systems Analysis & Design, Spring 2024
 - INFO-453 Computer & Information Ethics, Fall 2023
 - INFO-453 Computer & Information Ethics, Fall 2021

MENTORING

- **Diana Ngo, Information Science (Undergraduate)**
University of Illinois Urbana-Champaign January 2026 – Present
- **Wenqi Shan, Information Science (Undergraduate)**
University of Illinois Urbana-Champaign August 2025 – Present
- **Luke Guo, Information Science (Undergraduate)**
University of Illinois Urbana-Champaign October 2025 – Present

• Julia Trevino, Information Science (Undergraduate) <i>University of Illinois Urbana-Champaign</i>	August 2025 – Present
• Isaac Haizel, Information Science (PhD) <i>University of Illinois Urbana-Champaign</i>	September 2024 – Present
• Faris Nasser, Computer Science (Undergraduate) <i>American University of Sharjah</i>	June 2025 – August 2025
• Glory Edem Akwa, Information Science (PhD) <i>Indiana University-Bloomington</i>	August 2024 – May 2025
• Jack Xu, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	January 2023 – May 2023
• Cade Low, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	January 2023 – May 2023
• Olive Belcher, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	August 2022 – January 2023
• Annabelle L. Smith, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	August 2022 – January 2023
• Alec D. Blanton, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	January 2022 – May 2022
• Eddie W. Demars III, Computer Science (Undergraduate) <i>Indiana University-Bloomington</i>	January 2022 – May 2022

SERVICE AND LEADERSHIP

PO=PROGRAM ORGANIZER, PC=PROGRAM COMMITTEE, R=REVIEWER, S=SERVICE

Program Organization

PO Privacy Everywhere Conference, University of Illinois Urbana-Champaign, 2024–2025. (Co-organizer).

<https://cybersecurity.illinois.edu/2024-privacy-everywhere-conference/>

PO Doctoral Research Forum, Indiana University School of Library and Information Science, 2021–2022. (Co-organizer)

PO The Rise of Privacy Tech, Data Privacy Week 2021 & 2022. (Co-organizer)

PO Privacy and Data Protection for Healthcare Conference, Lokman Hekim University, 2021. (Co-organizer).

<https://www.lokmanhekim.edu.tr/ar/eczacilikta-kisisel-verilerin-korunmasi/>

Program Committee Membership

PC EDUCAUSE Cybersecurity and Privacy Guide Advisory Committee Member, April 2024–August 2025.

PC 14th International Conference on Advanced Communications and Computation Committee Member, October 2024.

Academic Peer Reviewer

R ACM CUI

R AAI ICSWM

R Journal of Information Science

R Journal of Education for Library and Information Science

R International Journal of Human-Computer Interaction

R EDUCAUSE Cybersecurity and Privacy Professionals Conference

R Americas Conference on Information Systems (AMCIS)

R Association for Information Science and Technology (ASIS&T)

R Journal of Theoretical and Applied Electronic Commerce Research

R IEEE Transactions on Human-Machine Systems

R ACM Conference on Human Factors in Computing Systems

R ACM Conference on Human Factors in Computing Systems (CHI)

R ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)

R iConference

R HICCS

Academic Service

S Contributor, Generative AI Center of Expertise, Office of the Provost, University of Illinois Urbana-Champaign, Fall 2023–Present. <https://genai.illinois.edu/>

S Judge, Women’s Research Poster Competition, Indiana University Bloomington, Spring 2023 & Spring 2024.

<https://womenandtech.indiana.edu/programs/research-poster-competition.html>

S Co-chair, Doctoral Student Association, Indiana University ILS, Fall 2021–Fall 2023

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM)	August 2022 – Present
Global Internet Governance Academic Network (GigaNet)	August 2019 – Present
Association for Information Science and Technology (ASIS&T)	August 2021 – Present
Ankara Bar Association & Turkish Bar Association (<i>Licensed Attorney</i>)	August 2018 – Present

ADDITIONAL INFORMATION

Languages: English, Turkish, German

Citizenship: USA, Türkiye

REFERENCES

- 1. Dr. Madelyn R. Sanfilippo**
Assistant Professor, School of Information Sciences
University of Illinois Urbana-Champaign
Email: madelyns@illinois.edu
Relationship: Postdoctoral Advisor
- 2. Dr. Howard Rosenbaum**
Professor, Department of Information and Library Science
Indiana University-Bloomington
Email: hrosenba@iu.edu
Relationship: Doctoral Advisor
- 3. Dr. Xiaojing Liao**
Associate Professor, School of Computing and Data Science
University of Illinois Urbana-Champaign
Email: xjliao@illinois.edu
Relationship: Doctoral Advisor
- 4. Faye E. Jones, J.D.**
Director of the Albert E. Jenner Law Library and Clinical Professor of Law
University of Illinois College of Law
Email: fjone@illinois.edu
Relationship: Master's Advisor