Curriculum Vitae

Position Held

2024-present Assistant Professor, University of Georgia.

Postdoctoral Experience

2022–2024 **Postdoctoral Fellow**, *ETH Zürich*. Host - Prof. Kenneth G. Paterson.

Education

2017–2022 **Ph.D. in Computer Science**, *University of Bristol*. Advisors - Prof. Oliver Johnson and Prof. Bogdan Warinschi.

2013–2017 M.Eng in Mathematics and Computer Science, *University of Bristol.*Graduated with First Class Honours.

Professional Experience

2020–2021 Research Intern, ETH Zürich. Host - Prof. Kenneth G. Paterson.

Publications

- 2024 Understanding Leakage in Searchable Encryption: a Quantitative Approach. Proc. Priv. Enhancing Technol. (PoPETS) 2024. Alexandra Boldyreva, Zichen Gui, Bogdan Warinschi.
- 2024 SWiSSSE: System-Wide Security for Searchable Symmetric Encryption.
 Proc. Priv. Enhancing Technol. (PoPETS) 2024.
 Zichen Gui, Kenneth G. Paterson, Sikhar Patranabis, Bogdan Warinschi.
- 2023 Security Analysis of MongoDB Queryable Encryption. USENIX Security 2023. Zichen Gui, Kenneth G. Paterson, Tianxin Tang.
- 2023 Rethinking Searchable Symmetric Encryption.

IEEE S&P 2023. Zichen Gui, Kenneth G. Paterson, Sikhar Patranabis.

2019 Encrypted Databases: New Volume Attacks against Range Queries.
 ACM CCS 2019.
 Zichen Gui, Oliver Johnson, Bogdan Warinschi.

Talks

- 2024 Understanding Leakage in Searchable Encryption: a Quantitative Approach. Proc. Priv. Enhancing Technol. (PoPETS) 2024.
- 2024 SWiSSSE: System-Wide Security for Searchable Symmetric Encryption. Proc. Priv. Enhancing Technol. (PoPETS) 2024.
- 2023 Rethinking Searchable Symmetric Encryption.
 IEEE S&P 2023, Encryption for Secure Search and other Algorithms 2023.
- 2019 Encrypted Databases: New Volume Attacks against Range Queries. ACM CCS 2019.

Professional Activities and Services

- O Conference Program Committee Memberships: ACM CCS 2023, ACM CCS 2024.
- External Reviewing Conferences: IACR Eurocrypt, IACR Asiacrypt, IEEE S&P.

Languages and Programming Languages

- O Fluent in English. Native Chinese speaker.
- O Experienced in C, C++, Java, JavaScript, Python and SQL.