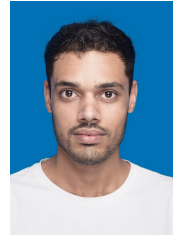


# Adil Nawaz, Ph.D.

✉ [adilnawazin@gmail.com](mailto:adilnawazin@gmail.com) ☎ 15012737665  
📖 Google Scholar 🌐 [adillin.github.io](https://github.com/adillin)



## Personal Information

**Family Name:** Nawaz    **Given Name:** Adil    **Date of Birth:** 1993-02-28

**Nationality:** Pakistan

**Research Interests:** Privacy-preserving machine learning; probabilistic modeling; federated learning; Bayesian methods; Computer Vision

## Education

- 2021 – 2025    📖 **Ph.D., Shenzhen University** in Computer Science & Technology.  
Thesis title: *Federated Bayesian Optimization based on Secure Gaussian Process.*
- 2018 – 2020    📖 **M.Eng., South China University of Technology** in Information & Communications Engineering  
Thesis title: *Multilingual Scene Text Detection & Recognition using Deep Learning.*
- 2010 – 2014    📖 **B.Sc. University of Engineering & Technology, Peshawar** in Telecom Engineering  
Thesis title: *Crop Estimation & Geographical Mapping System using Multispectral Satellite Imagery.*

## Employment History

- 2015 – 2018    📖 **Lecturer.** Computer Science & IT, KP Elementary and Secondary Education Department.

## Research Publications

### Journal Articles

- 1 A. Nawaz, J. Li, V. C. Leung, S. Wang, and J. Chen, "F2gfp: Privacy-preserving federated & fast gaussian process models with support set optimization," *IEEE Transactions on Dependable and Secure Computing*, pp. 1–18, 2025. 🔗 DOI: 10.1109/TDSC.2025.3648425.

### Conference Proceedings

- 1 A. Nawaz, S. Wang, J. Li, and J. Chen, "Federated bayesian optimization based on secure distributed gaussian processes," in *The Fourteenth International Conference on Learning Representations*, 2026, Under Review (CCF-A).
- 2 A. Nawaz, G. Chen, M. U. Raza, *et al.*, "Secure distributed sparse gaussian process models using multi-key homomorphic encryption," in *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 38, 2024, 14 431–14439 (CCF-A).
- 3 M. U. Raza, J. Chen, A. Nawaz, *et al.*, "IBATree: A novel method for interpretable cancer cell diagnosis using information bottleneck attribution," in *2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, IEEE, 2024, 3661–3666 (CCF-B).

- 4 M. U. Raza, J. Chen, L. Wang, A. **Nawaz**, V. C. Leung, and J. Li, "Tree regularization for visual explanations of cancer cell classification," in *2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, IEEE, 2024, 3655–3660 (**CCF-B**).
- 5 Z. Iqbal, F. Ji, J. Li, *et al.*, "Composite virtual spatial modulation and its diversity enhancement," in *2023 IEEE International Conference on Communications*, IEEE, 2023, 320–325 (**CCF-C**).
- 6 M. U. Raza, A. **Nawaz**, X. Liu, *et al.*, "Visual Explanations: Activation-based acute lymphoblastic leukemia cell classification," in *2023 IEEE International Conference on Development and Learning (ICDL)*, IEEE, 2023, pp. 61–66.
- 7 A. **Nawaz**, Z. Iqbal, and S. Ullah, "Performance analysis of supervised image classification techniques for the classification of multispectral satellite imagery," in *2015 Fourth International Conference on Aerospace Science and Engineering (ICASE)*, 10.1109/ICASE.2015.7489513, 2015, pp. 1–5.

## Skills

Languages	■ Fluent in English. Intermediate in Mandarin Chinese.
Coding	■ C++, Python, R, Matlab, $\text{\LaTeX}$ , ...
Misc.	■ Academic research, teaching, training, $\text{\LaTeX}$ typesetting and publishing.

## Miscellaneous Experience

### Awards and Achievements

- 2018 ■ **Chinese Government Scholarship (CGS) Silk Road Program**, Awarded in 2018 for Masters at South China University of Technology.
- 2021 ■ **Guangdong Government Outstanding International Student Scholarship & Shenzhen University Scholarship**, Financial award to study for PhD at Shenzhen University for 4 years.
- 2022 ■ **Best Paper Finalist Award**, Best Paper Finalist award at 2023 IEEE International Conference on Development and Learning (ICDL).
- 2024 ■ **Shenzhen University Outstanding Innovative Talent Scholarship (Special Prize)** Highest level award, ¥77,000, Selected as one of the top PhD students for outstanding research achievements and innovation.
- **Excellence Award**, Guangdong-Hong Kong-Macao Greater Bay Area Data Application Innovation Competition.
- **AAAI Travel Scholarship Award**, Got Travel Scholarship funding for attending The 38th Annual AAAI Conference on Artificial Intelligence, Vancouver, B.C., Canada.

## References

**Victor C. M. Leung**,  
**PhD, LFIEEE, FRSC, FCAE, FEIC**  
 Distinguished Professor of Computer Science and  
 Software Engineering Shenzhen University  
 vleung@ieee.org

**Jie Chen, PhD**  
 Assistant Professor & Distinguished Researcher  
 Head of Intelligence Science Department, School of  
 AI, Shenzhen University  
 chenjie@szu.edu.cn

# List of Publications

[1] **Nawaz, A.**, Chen, G., Raza, M. U., Iqbal, Z., Li, J., Leung, V. C. M., Chen, J. (2024). *Secure Distributed Sparse Gaussian Process Models Using Multi-key Homomorphic Encryption*. **Proceedings of the AAAI Conference on Artificial Intelligence**, 38(13), 14431–14439. (CCF-A).

<https://ojs.aaai.org/index.php/AAAI/article/view/29357>

[Conceived, Designed, Implemented and Written the manuscript (>95% contribution)]

[2] **Nawaz, A.**, Li, J., Leung, V. C. M., Wang, S., Chen, J. (2025). *F2GP: Privacy-preserving Federated and Fast Gaussian Process Models with Support Set Optimization*. **IEEE Transactions on Dependable and Secure Computing**, Accepted. (CCF-A)

<https://ieeexplore.ieee.org/document/11316261>

[Conceived, Designed, Implemented and Written the manuscript (>95% contribution)]

[3] **Nawaz, A.**, Li, J., Leung, V. C. M., Wang, S., Chen, J. (2025). *Federated Bayesian Optimization via Distributed Sparse Gaussian Processes*. **Manuscript presented at the Fourteenth International Conference on Learning Representations (ICLR 2026)**.

<https://openreview.net/forum?id=gBT9HqV5n3>

[Conceived, Designed, Implemented and Written the manuscript (>95% contribution)]

[4] Raza, M. U., Chen, J., **Nawaz, A.**, Saeed, F., Leung, V. C. M., Li, J., Wang, Z. (2024). *IBATree: A Novel Method for Interpretable Cancer Cell Diagnosis Using Information Bottleneck Attribution*. **Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM)**, 3661–3666. (CCF-B)

<https://ieeexplore.ieee.org/abstract/document/10821929>

[Helped with mathematical structure and technical revision of the manuscript (30% contribution)]

[5] Raza, M. U., Chen, J., Wang, L., **Nawaz, A.**, Leung, V. C. M., Li, J. (2024). *Tree Regularization for Visual Explanations of Cancer Cell Classification*. **Proceedings of the IEEE International Conference on Bioinformatics and Biomedicine (BIBM)**, 3655–3660. (CCF-B)

<https://ieeexplore.ieee.org/abstract/document/10822343>

[Helped with mathematical structure and technical revision of the manuscript (30% contribution)]

[6] Iqbal, Z., Ji, F., Li, J., et al. (2023). *Composite Virtual Spatial Modulation and Its Diversity Enhancement*. **Proceedings of the IEEE International Conference on Communications (ICC)**, 320–325. (CCF-C)

[Helped with the technical revision of the manuscript (10% contribution)]

[7] Raza, M. U., **Nawaz, A.**, Liu, X., et al. (2023). *Visual Explanations: Activation-based Acute Lymphoblastic Leukemia Cell Classification*. **Proceedings of the IEEE International Conference on Development and Learning (ICDL)**, 61–66.

[Helped with mathematical structure and technical revision of the manuscript (30% contribution)]

[8] **Nawaz, A.**, Iqbal, Z., Ullah, S. (2015). *Performance Analysis of Supervised Image Classification Techniques for the Classification of Multispectral Satellite Imagery*. **Proceedings of the Fourth International Conference on Aerospace Science and Engineering (ICASE)**, 1–5.

[Conceived, Designed, Implemented and Written the manuscript (100% contribution)]