Yansong Feng Website: https://www.fffmath.com

Github: https://github.com/fffmath

SUMMARY

My research interests primarily revolve around Algorithms & Theory, particularly in Lattice-based Cryptography and Succinct Zero-Knowledge Proofs.

Education

Chinese Academy of Sciences (CAS) • Academy of Mathematics and Systems Science (AMSS) Ph.D. in Applied Mathematics (Expected) Courses: Modern Cryptography, Error Correcting Code, Computational Algebraic Geometry, Computer Algebra	Set	Beijing, China pt. 2022 - Current GPA: 3.76/4
Aarhus UniversityVisiting PhD Student	Oct.	Aarhus, Denmark 2024 - Oct. 2025
 Nankai University Bachelor of Science - Pure Mathematics and Applied Mathematics Chern Class (Honor Class), named after Shiing-Shen Chern Courses: Abstract Algebra, Representation Theory of Finite Groups, Dynamical System, Associative Algebra 	Sept.	Tianjin, China 2018 - Jun. 2022 GPA: 3.56/4
Research Experience		
Secure Multi-Party Computation from Post-quantum Cryptography • Crypto Group, Aarhus University.	Oct.	Aarhus, Denmark 2024 - Sept. 2025
 Hosted by Diego F. Aranha. Status TBD.		
• Achievements TBD.		TT TT
 Trusted Collaboration of Identity and Data Based on ZKP Department of Computing, PolyU 	Jun.	HongKong, China 2024 - Sept. 2023
$\circ~$ Hosted by AU Man Ho Allen.		
• Status Doing some research on a topic about Lattice based polynomial commitment scheme.		
• Achievements		
* Read several chapters of A Graduate Course in Applied Cryptography.		
* Carefully read the papers on Lattice based polynomial commitment scheme.		
PUBLICATIONS		
 Yansong Feng, Abderrahmane Nitaj, Yanbin Pan. Newton Polytope-Based Strategy for Fin Multivariate Polynomials. In submission. https://eprint.iacr.org/2024/1330.pdf 	ding	Roots of
• Yansong Feng, Abderrahmane Nitaj, Yanbin Pan. Small Public Exponent Brings More: Im Exposure Attacks against RSA. Communications in Cryptology (2024). https://eprint.iacr.org/	prove /2024/	d Partial Key 1329.pdf
- Yihang Cheng, Yansong Feng, Hengyi Luo, Yanbin Pan. Solving $\gamma\text{-}\mathbf{SVP}$ in Order-Ideal Latti	ces. Ii	n submission.
• Yihang Cheng, Yansong Feng, Yanbin Pan. Embedding Integer Lattices as Ideals into Poly ISSAC'24. https://eprint.iacr.org/2024/1041	nomi	al Rings.
• Yansong Feng, Abderrahmane Nitaj, Yanbin Pan. Partial Prime Factor Exposure Attacks of Theoretical Computer Science (2024). https://doi.org/10.1016/j.tcs.2024.114549	on Sor	ne RSA Variants.
 Yansong Feng, Abderrahmane Nitaj, Yanbin Pan. Generalized Implicit Factorization Proble SAC'23. https://eprint.iacr.org/2023/1562 	e m .	
Projects		
• Useful-Links: It's a webpage designed to provide many useful links related to cryptography. https	://link	.fffmath.com
• Identifying-Ideal-Lattice : A toolkit for identifying whether the input lattice is an ideal lattice or https://github.com/fffmath/Identifying-Ideal-Lattice	[.] not.	
Honors and Awards		
• HUA Scholarship of AMSS (100,000 RMB) - Sept. 2024		
• Top Prize of the 9th (2024) National College Cryptomath Challenge (60,000 RMB) - Aug. 20)24	
Skills Summary		
• Programming Python (Sagemath, Pandas, NumPy, Scikit-learn. etc.), C++ (makefile, unit test	ts).	
$\bullet \ \ {\rm Tools} \ \ {\rm Linux}, \ {\rm Shell} \ ({\rm Bash}/{\rm Zsh}), \ {\rm L}^{\!\!\!\!A}\!T_{\!E}\!X({\rm Overleaf}), \ {\rm Microsoft} \ {\rm Office}, \ {\rm Git} \ ({\rm version} \ {\rm control}).$		

• Soft Skills Leadership, Event Management, Writing, Public Speaking, Time Management