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EDUCATION	Okayama University , Okayama, Japan <ul style="list-style-type: none">• Ph.D. in Public Key Cryptography, GPA: 4.0/4.0.• Advisor: Professor Yasuyuki Nogami.• Ph.D. thesis: A Study of Efficient Pairing Computation Algorithm Using KSS Curves Jahangirnagar University , Bangladesh. <ul style="list-style-type: none">• B.Sc., Computer Science and Engineering. GPA: 3.71/4 –163 credits, Rank: 4/40.	2015–2019 <

RESEARCH EXPERIENCE	<ul style="list-style-type: none"> • 5+ years of academic and industry research experience in public-key-cryptography and secure computing while working on diverse applications from data analytics to machine learning. • Currently working on designing and implementing PoC using the state-of-the-art research on Homomorphic-Encryption and Secure Computing for Big-Data analytic and Privacy-Preserving Machine Learning. • Previously worked on mathematical optimization of pairing-based security protocols (BLS-signature) used in blockchain.
RESEARCH PROFILES	<ul style="list-style-type: none"> • ResearchGate • Google Scholar [<i>Complete publication list</i>] • ORCID
SELECTED PUBLICATIONS	<ol style="list-style-type: none"> 1. Md. Al-Amin Khandaker and Yasuyuki Nogami. “An Improvement of Scalar Multiplication by Skew Frobenius Map with Multi-Scalar Multiplication for KSS Curve”. In: <i>IEICE Transactions</i> 100-A.9 (2017), pp. 1838-1845. DOI: 10.1587/transfun.E100.A.1838. 2. Md. Al-Amin Khandaker, Yuki Nanjo, Loubna Ghammam, Sylvain Duquesne, Yasuyuki Nogami, and Yuta Koda. “Efficient Optimal Ate Pairing at 128-Bit Security Level”. In: <i>INDOCRYPT 2017</i>. Ed. by Arpita Patra and Nigel P. Smart. Vol. 10698. LNCS. Springer, Heidelberg, Dec. 2017, pp. 186–205. DOI: 10.1007/978-3-319-71667-1_10. (Acceptance rate $19/75 \approx 25\%$) 3. Md. Al-Amin Khandaker, Hirotaka Ono, Yasuyuki Nogami, Masaaki Shirase, and Sylvain Duquesne. “An Improvement of Optimal Ate Pairing on KSS Curve with Pseudo 12-Sparse Multiplication”. In: <i>ICISC 2016</i>. Ed. by Seokhie Hong and Jong Hwan Park. Vol. 10157. LNCS. Springer, Heidelberg, Nov. 2016, pp. 208–219. DOI: 10.1007/978-3-31953177-9_11. (Acceptance rate $18/69 \approx 26\%$) 4. Md. Al-Amin Khandaker, Yasuyuki Nogami, Hwajeong Seo, and Sylvain Duquesne. “Efficient Scalar Multiplication for Ate Based Pairing over KSS Curve of Embedding Degree 18”. In: <i>WISA 2016</i>. Ed. by Dooho Choi and Sylvain Guilley. Vol. 10144. LNCS. Springer, Heidelberg, Aug. 2016, pp. 221–232. DOI: 10.1007/978-3-319-56549-1_19. (Acceptance rate $31/61 \approx 51\%$)
HONORS AND AWARDS	<ul style="list-style-type: none"> • Dean’s Scientific Award for Ph.D. thesis. 2019 • Japan Govt. MEXT scholarship for Doctor’s course. 2015 • Bangladesh Govt. merit scholarship from grade 6 until undergraduate graduation in 2012.
REFERENCES	<p>Professor Yasuyuki Nogami Okayama University E-mail: yasuyuki.nogami@okayama-u.ac.jp</p> <p>Professor Takuya Kusaka Okayama University E-mail: kusaka-t@okayama-u.ac.jp</p> <p>Dr. Claude Gravel EAGLYS Inc. E-mail: claudegravel1980@gmail.com</p>