

Junbeom Lee

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Employment History

- **Dept of Math, National University of Singapore** **Singapore**
Research Fellow *Aug 2018 - present*
 - XVA: CVA, DVA, FVA, MVA, economic capital
 - Ruin probability
- **FN-Pricing** **Seoul, South Korea**
Quant *Sept 2012 – Jul 2014*
 - Developing and managing a C++ pricing engine for hybrid derivatives
 - Connecting the C++ pricing engine to Microsoft Excel
 - Arbitrage-free implied volatility surfaces (SVI & SSVI)
 - Volatility calibration of two-factor Gaussian term structure models
 - Least-Square Monte Carlo
- **933 Artillery** **Paju, South Korea**
Squad leader *Mar 2007 – Mar 2009*
National service

Education

- **National University of Singapore** **Singapore**
Ph.D. of Mathematics *Aug 2014 – Aug 2018*
Thesis: Bilateral contracts under XVA
- **Sungkyunkwan University** **Suwon, South Korea**
Master of Mathematics *Sept 2011 – Feb 2013*
Thesis: A study on the regularity criteria for the solutions to 3D MHD
- **Sungkyunkwan University** **Suwon, South Korea**
Bachelor of Mathematics *Mar 2006 – Aug 2011*

Papers

- Lee, J., Sturm, S., & Zhou, C. (2019). A Risk-Sharing Framework of Bilateral Contracts. arXiv preprint arXiv:1901.03874.
- Lee, J., & Zhou, C. (2017). A Binary Nature of Funding Impacts in Bilateral Contracts. arXiv preprint arXiv:1703.00259.

Computing Skills

C, C++, Python, Clojure, Ruby, Emacs Lisp, SQL

Websites

- <https://www.linkedin.com/in/junbeoml22>
- <https://github.com/JunbeomL22/BSDE-engine> (BSDEs with initial margin)

References

- **Immediate boss at FN-Pricing**
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