Hong Beng (Ben) Lim

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Education

- Ph.D. in Statistics (Conc. Act. Sci.), The University of Iowa, May 2022
    - Key courses: Asymptotic Statistics, Computer-intensive Statistics, Bayesian Nonparametrics
- M.S. in Statistics, The University of Iowa, May 2018 (4.17/4.33 GPA)
- B.B.A. in Actuarial Science, University of Wisconsin-Madison, May 2016 (3.97/4.00 GPA)
- American Degree Transfer Program, Taylor's University, Malaysia, August 2013

Actuarial Certification

- Associate of the Society of Actuaries (ASA)
- Pursuing Quantitative Finance and Investment (QFI) track of Fellowship

Publications

Peer-reviewed papers

- **Lim, H.B.** and Shyamalkumar, N.D. (2022). *Evaluating medical underwriters in life settlements: problem of unreported deaths.* North American Actuarial Journal: 26(2), 298-322.
- **Lim, H.B.** and Shyamalkumar, N.D. (2021). *A semiparametric method for assessing life expectancy evaluations.* North American Actuarial Journal: 25(3), 360-394.
- Zimmerman, D. and **Lim, H.B.** (2021). *The middle-seed anomaly: Why does it occur in some sports tournaments but not others?* Journal of Quantitative Analysis in Sports: 17(3), 171-185.

Working papers

- **Lim, H.B.** and Shyamalkumar, N.D. *Incorporating industry mortality table stylized facts into a company-specific mortality analysis: Neural networks with monotonicity constraints.* http://ssrn.com/abstract=3964181.
- **Lim, H.B.** and Shyamalkumar, N.D. *On the existence of large-dimension consistent estimators for the parameters of an exchangeable copula.*
- **Lim, H.B.** *Modeling underwriting wear-off via a time-varying Cox regression model.*
- **Lim, H.B.** *Mortality estimation under time-varying rates of unreported deaths.*

Presentations

- *Incorporating industry mortality table stylized facts into a company-specific mortality analysis: Neural networks with monotonicity constraints.*
  - Waterloo Student Conference in Statistics, Actuarial Science and Finance (2021), online.
  - International Congress on Insurance: Mathematics and Economics (2021), online.
- *Introduction to life settlements: improved evaluation of underwriting.* The University of Iowa Statistics Student Organization Seminar (2021), Iowa City, IA.
- *Adjusting for IBNR in life settlements mortality using cure rate models.* SOA Actuarial Research Conference (2020), Lincoln, NE (online).
- *A semiparametric method for assessing the quality of life expectancy evaluations.*
  - SOA Actuarial Research Conference (2019), Indianapolis, IN.
  - International Congress on Insurance: Mathematics and Economics (2019), Munich, Germany.

Research grants and Fellowships

- Ballad and Seashore Dissertation Fellowship, Spring 2022.
- Graduate College Summer Fellowship, 2021 & 2019.
- SOA/CAS Individual Grant Competition, 2020. *Incorporating industry mortality table stylized facts into a company-specific mortality analysis: Neural networks with monotonicity constraints.* Proposal reached final round of reviews; not funded.
- Hickman Scholarship, Society of Actuaries, 2020.
- Taylor Award for Actuarial Stochastics, The University of Iowa, 2019.
- SOA/CAS Individual Grant Competition, 2019. *Enhanced modeling of mortality in life settlements.* Not funded.
- Graduate College Post-Comprehensive Research Fellowship, The University of Iowa, Spring 2019.
- SOA/CAS Individual Grant Competition, 2018. *Are drivers more cautious after the first accident? A new model for frequency-severity in auto-insurance.* Not funded.
- Bicknell Scholarship, University of Wisconsin-Madison, 2016.

Experience

Research

- Research Analyst, SOA Financial Wellness and Healthcare Grant, PwC: 9/2021 - 11/2021
  - Interfaced with social science experts at Duke University to explore publicly available sources of data on health and financial disparities
  - Learned public sources of data for Diversity, Equity and Inclusion research in insurance
- Research Assistant, Statistics, The University of Iowa: 9/2018 - 5/2020
  - Created primer on copulas for use at the graduate level

- Hands-on experience analyzing sports statistics dataset using copulas
- Investigated middle-seed anomaly in tournaments using order-restricted inference and probit team-strength models

Teaching

- Course Instructor, Actuarial Exam Preparation (P and FM), The University of Iowa: 9/2020 - 12/2021
  - Created effective hybrid course design for equal participation in-person and over Zoom
- Course Instructor, Prob. & Stat. for Engr. & Phys. Sci., The University of Iowa: 5/2018 – 6/2018
  - Connected theory with daily life uses through real-world examples
  - Innovated on existing teaching strategies to make material appear less technically difficult
- Grader, Statistics and Actuarial Science, The University of Iowa: 9/2018 - Present
  - Graded and helped create solutions for doctoral courses in Asymptotic Statistics, Linear Models, and Probability
- Teaching Assistant, Statistics, The University of Iowa: 9/2016 - 5/2018
  - Taught students in business, general background, and engineers
  - Independently conducted activities (e.g. Jeopardy) to foster student interest in material
- Undergraduate Teaching, University of Wisconsin-Madison: 9/2014 - 5/2016
  - Tutored engineering students in drop-in and by-appointment settings
  - Designed and facilitated activities for first-year seminar to help students acclimate to campus

Service

- Statistics Student Organization, The University of Iowa
  - President, 2020-2021
    - Organized Zoom meetings to facilitate regular contact between graduate students during pandemic
    - Organized events to help undergraduate students learn about graduate studies in statistics and graduate school applications
  - Treasurer, 2019-2020
- Logistics Director, Malaysian Student Association, University of Wisconsin-Madison, 2014-2015

Honors and Awards

- Henry L. Rietz Award, The University of Iowa (2019)
  - Award for outstanding performance in doctoral comprehensive exams
- Honorable Mention: Allen T. Craig (Outstanding TA) Award, The University of Iowa (2018)

Skills

- Languages (written and spoken): English, Mandarin Chinese, Malay, Cantonese, Japanese (JLPT N1)
- Programming languages: R (proficient), SAS (familiar), Python (familiar)