



Mohamed Hanafy Kotb Ibrahim

📍 **Work:** School of Risk and Actuarial Studies, University of New South Wales , 2052, Sydeny, Australia

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ABOUT MYSELF

I am a PhD candidate at UNSW Business School. My research focuses on the intersection of actuarial science and machine learning techniques. My work combines actuarial and data-driven methods to support fair and accurate decision-making. I have hands-on experience with Python and R, and I enjoy solving real-world problems using AI. Beyond research, I am passionate about teaching and have served as a Teaching Assistant for multiple courses in actuarial data science and AI applications in insurance.

EDUCATION & TRAINING

[13/02/2024 - Current]

Doctor of Philosophy (PhD) Risk and Actuarial Studies

UNSW

Address: School of Risk and Actuarial Studies, University of New South Wales, Sydeny (Australia)

[13/02/2023 - 01/12/2024]

Master of Pre-Doctoral Business Studies (MPDBS).

UNSW

Address: School of Risk and Actuarial Studies, University of New South Wales 2052, Sydeny (Australia)

[31/08/2019 - 30/01/2022]

Matser

Zhejiang Gongshang University

Address: School of Statistics and Mathematics, Zhejiang Gongshang University, Hangzhou , China, Hangzhou (China)

[31/08/2013 - 30/07/2017]

Bachelor

Assuit University

Address: Department of Statistics, Mathematics, and Insurance, Faculty of commerce, Assuit University, Asyut, Assuit (Egypt)

SKILLS

Actuarial Science | Mathematical analysis | Data Science, Data Analytics, Data Visualization | Machine Learning | Statistical programming: R programming language | Python

HONOURS AND AWARDS

[14/07/2025]

3MT Prize competition Awarding institution: UNSW

UNSW Sydney (University Level)

[14/06/2025]

3MT Prize competition Awarding institution: UNSW Business School

UNSW (Business School level)

[20/02/2024]

Included on the UNSW Business School Dean's List in recognition of my academic achievements in 2023. Awarding institution: UNSW

[30/01/2022] **First-class honour position Awarding institution:** Zhejiang Gongshang University , school of statistics and Mathematics

I got the highest grades among all students in the Master in 2022.

[30/07/2017] **First-class honour position Awarding institution:** Assiut University, Department of Statistics, Mathematics, and Insurance.

I got the highest grades among all students in the Bachelor in 2017.

TEACHING EXPERIENCE

[08/09/2025 - 31/12/2025] **Actuarial Data Science App (ACTL5305)**

UNSW Business School, Term 3 2025

[26/05/2025 - 30/09/2025] **Artificial Intelligence and Deep Learning Models for Risk and Insurance (ACTL5111)**

UNSW Business School, Term 2 2025

[26/05/2025 - 30/09/2025] **Risk Decision Analytics (RISK5003)**

UNSW Business School, Term 2 2025

[10/02/2025 - 15/05/2025] **Interdisciplinary Applications of Analytics Techniques (COMM5601)**

UNSW Business School, Term 1 2025

Insurance & its Mathematics

Spring semester 2019 Department of Statistics, Mathematics, and Insurance. Assiut University ,Egypt

Operations Research

Fall semester 2021/ 2022 Department of Statistics, Mathematics, and Insurance. Assiut University ,Egypt

Applied Statistics

Spring semester 2022 Department of Statistics, Mathematics, and Insurance. Assiut University ,Egypt

Investment Mathematics

Spring semester 2022 Department of Statistics, Mathematics, and Insurance. Assiut University ,Egypt

PEER REVIEW

serving as a reviewer for different journals

1. Reviewer for **Intelligent Systems in Accounting, Finance and Management journal** Edited By: Daniel O'Leary Online ISSN: 2160-0074.
2. Reviewer for **Applied Artificial Intelligence journal** Print ISSN: 0883-9514 Online ISSN: 1087-6545.
3. Reviewer for **SAGE Open journal** ISSN: 2158-2440 Online ISSN: 2158-2440.
4. Reviewer for **Psychology Research and Behavior Management** ISSN: 1179-1578

CONNECT WITH ME

Get in Touch

[Website](#)

[Linkedin](#)

[UNSW profile](#)

[Assiut University profile](#)

RESEARCH INTERESTS

Insurance Pricing | Machine Learning | Reinforcement Learning | Optimization

PUBLICATIONS

My google scholar profile

[google scholar](#)

CONFERENCES & PRESENTATIONS

Australasian Actuarial Education and Research Symposium (AAERS) 2025

Actuarial, Finance, Risk and Insurance Congress 2 (AFRIC 2) 2025