



Mohamed Hanafy Kotb Hanafy

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

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Phone: (+61) 0404488448

Gender: Male **Date of birth:** 14/06/1995 **Nationality:** Egyptian

ABOUT MYSELF

I am a PhD candidate at UNSW Business School. My research focuses on the intersection of actuarial science and modern 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 2052, Sydney (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, Sydney (Australia)

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

Matser

Address: School of Statistics and Mathematics, Zhejiang Gongshang University, Hangzhou , China 310018, Hangzhou (China)

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

Bachelor

Address: Department of Statistics, Mathematics, and Insurance, Faculty of commerce, Assuit University, Asyut 71515, Assuit (Egypt)

SKILLS

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

RESEARCH INTERESTS

Car Insurance Pricing

Machine Learning

Reinforcement Learning

Optimization

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

[30/07/2017]

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.

[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.

TEACHING EXPERIENCE

Actuarial Data Science App (ACTL5305)

UNSW Business School, Term 3 2025

Artificial Intelligence and Deep Learning Models for Risk and Insurance (ACTL5111)

UNSW Business School, Term 2 2025

Interdisciplinary Applications of Analytics Techniques T1 (COMM5601)

UNSW Business School, Term 1 2025

Risk Decision Analytics (RISK5003)

UNSW Business School, Term 2 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

PUBLICATIONS

google scholar

Link: <https://scholar.google.com/citations?user=8DRa0RUAAAAJ&hl=en>