Alan Kowalczyk | MSc, MBCS

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🌐 alankowalczyk.github.io/Portfolio_website/ • in kowalczyk-alan

○ AlanKowalczyk

About Me

A motivated researcher specializing in Artificial Intelligence, Machine Learning, and Financial Technology with strong programming expertise and a passion for algorithmic trading.

Education

UCSI University	**Kuala Lumpur, Malaysia**
PhD in Computer Science	*05.2025 – Present*
Caltech CTME	**Online**
Postgraduate Program in Artificial Intelligence & Machine Learning	*08.2024 – 09.2025*
Abertay University	**Dundee, UK**
MSc in Computer Science with Artificial Intelligence (Distinction, CGPA 3.88)	*10.2023 – 11.2024*
Adam Mickiewicz University	**Poznań, Poland**
Master's Degree in Astronomy	*10.2005 – 06.2011*
University of La Laguna	**La Laguna, Spain**
Erasmus Exchange Program (Astrophysics)	*09.2009 – 01.2010*
XXI Secondary School	**Poznań, Poland**
Secondary Education (Math, Informatics, Physics)	*09.2000 – 06.2004*

Certifications

HarvardX	**Online**
Machine Learning and AI with Python	*04.2025 – 05.2025*
HKUx	**Online**
FinTech Ethics and Risks	*01.2025 – 03.2025*
HKUx	**Online**
Introduction to FinTech	*11.2024 – 12.2024*
HarvardX	**Online**
Introduction to Data Science with Python	*10.2024 – 11.2024*
StanfordOnline	**Online**
Databases: Relational Databases and SQL	*10.2024*
MITx	**Online**
Introduction to Computational Thinking and Data Science	*10.2023 – 12.2023*
MITx	**Online**
Introduction to Computer Science and Programming using Python	*05.2023 – 08.2023*

Professional Memberships

Member of the British Computer Society (MBCS)

Research Publications

1: W. Dimitrov, K. Kaminski, H. Lehmann, P. Ligeza, M. Fagas, P. Baginska, T. Kwiatkowski, K. Bakowska, **A. Kowalczyk**, M. Polinska, P. Bartczak, A. Przybyszewska, A. Kruszewski, K. Kurzawa, A. Schwarzenberg-Czerny (2015).

V342 Andromedae B Is An Eccentric-Orbit Eclipsing Binary. Astronomy & Astrophysics, (**Q1, Scopus Indexed**)

2: K. Bensch, W. Dimitrov, N. Zywucka, M. Fagas, K. Kaminski, A. Przybyszewska, M. Maliczak, K. Kurzawa, A. Kruszewski, **T. Kowalczyk***, W. Borczyk, K. Bakowska, P. Bartczak, T. Kwiatkowski, A. Schwarzenberg-Czerny (2014).

New Spectroscopy Of Multiple Stars RR Lyncis And HT Virginis. Information Bulletin on Variable Stars, No. 6121, #1, (**Q4, Scopus Indexed**)

*Published under former name.

3: **Conference Poster:**

N. Żywucka, **T. Kowalczyk***, W. Dimitrov, M. Fagas, K. Kamiński, W. Borczyk, K. Bąkowska, A. Rożek, R. Baranowski, P. Bartczak, R. Hirsch, A. Kruszewski, K. Kurzawa, T. Kwiatkowski, M. Maliczak, A. Przybyszewska, A. Schwarzenberg-Czerny (2011).

Spectroscopic Observations of Objects with Small Amplitude Radial Velocity Variations (*Obserwacje spektroskopowe obiektów o małej amplitudzie zmian prędkości radialnych*). Poster presented at the conference *Utilisation of Small Telescopes II* (*Wykorzystanie małych teleskopów II*), Opole, Poland, 16–17 June 2011.

*Presented under former name.

Languages

Polish: Native
English: C1

Competences

Programming: C, Python, JavaScript

Financial Machine Learning, Algorithmic Trading, NLP for Finance, Financial Data Processing

Libraries: NumPy, Pandas, SciPy, Scikit-learn, Matplotlib, PyTorch, TensorFlow

HTML5, CSS, JavaScript, PHP, MySQL, PL/SQL

Operating Systems: Windows, Linux (Debian/Ubuntu)

Software: LibreOffice, LaTeX, GIMP

Soft Skills: Adaptability, Analytical Thinking

Interests

Artificial Intelligence, Machine Learning, Financial Technology, Algorithmic Trading

Astrophysics, Astro-Photography, Photography

Running: Completed marathons on all 7 continents and finished a 100km ultramarathon on first continent