Mihaly Koltai, PhD

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Profile

Experienced researcher with 10+ years of expertise in quantitative analysis applied to global health, infectious disease modelling, and health economics. Proven track record of peer-reviewed publications and research roles at leading life science and public health institutions across Europe and the UK. Strong technical skills in scientific programming and mathematical modelling.
Also skilled in political and economic analysis, with published writing and translations on related topics.

Professional Experience

Imperial College London, School of Public Health — London, UK
Research fellow — 07/2023 - Present

- leading project on transmission and health economic modelling of Tuberculosis among migrants in the UK
- built large transmission model in R of TB trends among main migrant groups from LMICs in the UK
- showed that pre-entry screening led to substantial reductions of latent TB among new entrants
- showed likely effectiveness of latent TB testing within UK to prevent progression to active TB
- manuscript under preparation

London School of Hygiene and Tropical Medicine — London, UK
Postdoctoral research fellow — 08/2020 - 07/2023

- built transmission and cost effectiveness models of respiratory viruses (RSV, flu, COVID19) in UK and LMICs
- showed that new immunisation products likely to be cost-effective in studied LMICs
- 3+2 1^{st}/shared-1^{st} author publications on vaccines and monoclonals for respiratory viruses
- led and published analysis on cost-effectiveness of new immunisation products for RSV in LMICs
- collaboration with data-providing public health partners in Kenya and South Africa
- gave talks and posters at international conferences

Institut Curie — Paris, France
Postdoctoral research associate — 09/2016 - 08/2020

- led and published collaboration with experimental partners in multi-country EU project on colon cancer
- showed limitations of previously used Monte Carlo calculation method, derived and implemented new exact solution
- organised multiple project meetings with partners
- gave talks and posters in international conferences

Qualifications

Ruprecht-Karls-Universität Heidelberg — Heidelberg, Germany
PhD, Mathematical biology — 2016

Eotvos Lorand University — Budapest, Hungary
Diploma (combined BSc+MSc) in Biology — 2012

Technical Skills

- Programming: R, MATLAB, Python, Bash
- Quantitative analysis: deterministic and stochastic simulations, sensitivity analysis, Bayesian and frequentist statistics
- Fluent in English, French, and German.

Other relevant experience

- Certificates: Machine Learning, ML with Python, Deep Learning, Improving Deep Neural Networks
- Editorial experience: editor of a social theory journal in Hungary 2010-2019 (voluntary role)
- Translating: translated two social science books (EN -> HU)
- Writing: articles on politics and economics in English and Hungarian, including in widely read outlets