



ZAID HATTAB

📍 Tulkarm, Palestine, West Bank

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SKILLS

- R-Programming
- Peer-reviewed publishing
- Lecture Planning
- Tutoring and counselling
- Data analysis
- Interdisciplinary research

SUMMARY

I am a quantitative researcher with strong training in applied statistics and causal inference, specialising in the analysis of heterogeneous treatment effects and cost-effectiveness in healthcare. I have experience working with randomised controlled trials and longitudinal data, applying advanced machine-learning-based methods to investigate mechanisms and policy-relevant heterogeneity. My research has resulted in multiple peer-reviewed publications.

EXPERIENCE

January 2017 - Current

Assistant Professor **An_Najah National University** | Nablus, Palestine, West Bank

- Deliver undergraduate teaching through lectures, presentations, and interactive class activities in both classroom and online settings. Develop lecture materials and presentations. Publish peer-reviewed research in health economics and medical care using novel machine-learning-based causal inference methods.

EDUCATION

2024

Doctor of Philosophy | Health Economics

University of Galway, Galway, Ireland

Completed a PhD in Health Economics (Applied Statistics), with research focused on exploring heterogeneity in effectiveness and cost-effectiveness in healthcare using advanced machine-learning and causal inference methods. The work examined variation in treatment effects and economic outcomes across patient subgroups and settings, and resulted in four peer-reviewed journal publications directly related to the thesis.

2016

Master of Science | Statistics

University of Palermo, Palermo, Italy

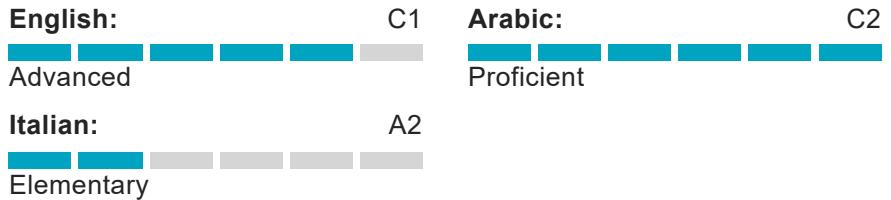
- **Completed a two-year Master's degree in Statistics**, with advanced coursework in statistical modelling, categorical data analysis, stochastic processes, nonparametric methods, and sampling techniques.

2013

Bachelor of Science | Mathematics
An_Najah National University, Nablus, Palestine

- Completed a 4-year BA degree in Mathematics

LANGUAGES



PUBLICATIONS

- 1. Hattab Z, Doherty E, Ryan AM, O'Neill S (2024) **Heterogeneity within the Oregon Health Insurance Experiment: An application of causal forests.** PLoS ONE 19(1): e0297205. <https://doi.org/10.1371/journal.pone.0297205>
- 2. Hattab, Zaid ; Doherty, Edel ; Sadique, Zia ; Ramnarayan, Padmanabhan MD; O'Neill, Stephen , **Exploring Heterogeneity in Cost-Effectiveness Using Machine Learning Methods: A Case Study Using the FIRST-ABC Trial.** Medical Care 62(7):p 449-457, July 2024. | DOI: 10.1097/MLR.0000000000002010
- 3. **Exploring Heterogeneity in the Cost-Effectiveness of High-Flow Nasal Cannula Therapy in Acutely Ill Children—Insights From the Step-Up First-line Support for Assistance in Breathing in Children Trial Using a Machine Learning Method**
Hattab, Zaid et al. Value in Health, Volume 28, Issue 1, 60 - 69. <https://doi.org/10.1016/j.jval.2024.08.008>.
- 4. Bolbocean C, Hattab Z, O'Neill S, Costa ML. **Are there patients with an intracapsular fracture of the hip who may benefit from an uncemented hemiarthroplasty?.** Bone Joint J. 2024;106-B(7):656-661. doi:10.1302/0301-620X.106B7.BJJ-2024-0267