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Professional Experience

Economist | CEPA (Cambridge Economic Policy Associates)

Oct 2025 – ongoing

- Economist consulting on policy issues across regulated sectors: Transport, Water, Energy, Aviation, & Health. Interpreting regulatory frameworks, building python and excel based models, & performing economic evaluations.
- Assisted in integrating AI into CEPA's workflow as part of the firm's AI working group

Selection of projects:

Analysis of childhood waiting lists in England for UNICEF | Oct 2026 – ongoing

- Led a project on assessing childhood waiting for healthcare across England, determining the current state of children's waiting lists, and data availability.

Gas price control 6 regulatory framework incentives for CRU | Oct 2026 – ongoing

- Reviewed the incentive structure faced by Gas Networks Ireland to update incentive package for price control 6.

Association of the British Pharmaceutical Industry Gross Value Added calculation | Sept 2026 – ongoing

- Assessed the gross value add of ABPI member companies using bottom up spend data, including modelling spillover effects via an IO model.

Review of Heathrow Expansion Appraisal for the International Air Transport Association | August 2026

- Undertook a review of the UK Government's economic appraisal of the Heathrow expansion, assessing the methodology, modelling assumptions, and economic evidence underpinning the third runway, and advised IATA on likely implications.

Real Options Framework for transport investment for Department for Transport (DfT) | April 2026 – ongoing

- Reviewed international frameworks and academic literature on applying real options methods to transportation investment.
- Produced reporting for DfT on applying real options methods to DfT projects.

Eye health campaign for Newmedica | Feb 2026 – June 2026

- Compared eye health treatment rates to need across England's healthcare boards for cataracts, glaucoma and AMD.
- Calculated regional treatment gaps by applying mathematical queuing theory to NHS data.
- Created maps of England's top 10 "Blind Spots" where the ratio of need to treatment vastly underperforms across diseases and metrics. Found that much of the recent fall in

ophthalmology waiting lists reflected non-clinical removals and validation rather than additional treatment.

Global Fund Covid-19 response mechanism end-term evaluation on health system strengthening for the Global Fund | Nov 2025 – Sept 2026

- Performed document review and analyzed healthcare data to determine the impact of Global Fund expenditure on healthcare systems.

Transformational impacts of station investment for Department for Transport | Oct 2025 – April 2026

- Conducted a quantitative evaluation of the economic impacts of station investments of four train stations, analyzing how station investments influence local economic outcomes and spatial development including jobs, housing prices, housing supply, vacancy rates, and productivity to determine where train station investment delivers transformational change.
- Performed a difference-in-difference statistical analysis and assessed business cases to create a theory of change for station investment, and evaluate why and where transformational goals where or were not accomplished.

Forecasting model for projecting the net revenue from water tariffs for last mile operators | Oct 2025 – April 2026

- Rebuilt an excel-based forecasting model into python, and updated the model to encompass recent legislative changes in the water sector.

Non-staff operating expenditure review for Airport Group | Oct 2025 – April 2026

- Comprehensive benchmarking between airports and bottom-up assessment to discover cost-efficiency opportunities complimenting an airport groups business structure.

Data Science Student | Workers' Compensation Board of Alberta

May 2023 – Dec 2023

- Conducted cost-benefit analysis and used Difference-in-Differences to assess an AI driven early treatment and intervention policy. Found that the organization saved $2.1 million and achieved a fivefold ROI, justifying further investments in automation.
- Performed ethics, bias, and reliability evaluations for machine learning models and internal AI, ensuring compliance with organizational standards & best practices.

Economics Research Assistant | Agriculture and Agri-Food Canada

May 2021 – July 2021

- Analyzed agricultural datasets to explore the effects of crop rotations on profit and field health.
- Produced graphical reports to communicate complex findings, contributing to the ongoing research on sustainable agricultural practices.
- Authored literature review to compile up-to-date overview of agricultural research.

Teaching Assistant | University of Alberta

Fall 2020 & Fall 2021

- Graded assignments and provided feedback for Calculus 3 and Linear Algebra 1 courses.

Aquatics, various roles | City of Edmonton

Swim Instructor | Dec 2016 – Sept 2024

- Taught over 1,000 swimmers, improving their water skills and comfort, with a focus on inclusive instruction for people of all ages and those with disabilities.
- Taught Bronze Star and Bronze Medallion lifesaving courses.
- Ran the Junior Lifeguard Club.
- Led staff training, mentored new hires, and fostered a collaborative work environment.

Lifeguard | Jan 2022 – Sept 2024

- Supervised swimmers and facilities.
- Responded to first aid emergencies.
- Kept a clean and orderly environment.

Zoominescence First Aid Support | Winter 2021, 2022 & 2023

- Responded to first aid incidents at the Edmonton Valley Zoo Zoominescence winter festival.
- Helped patrons and assisted managing crowds.

Education

MSc. Local Economic Development, with Distinction

London School of Economics, August 2025

- Winner of the prize for best dissertation: An 11% Shadow: Economic recovery of US commuting zones after wildfires. I found that the average 80th percentile or larger fire by buildings burnt, there is an 11% reduction in GDP lasting around 8 years.
- Winner of the joint prize for best overall performance.
- Coursework in: Regional and urban economics, spatial econometrics and GIS, development, growth, and innovation policy.

MSc. Mathematics and Statistics specialization in Modelling, Data, and Predictions

University of Alberta, 2024

- Statistics, big data methods, machine learning, AI, and mathematical modelling
- Economic forecasting & time-series methods

Cumulative GPA: 3.9 / 4.0

BSc. specialization in Mathematics and Economics with distinction

University of Alberta, 2022

- Microeconomics, Macroeconomics, Econometrics
- Behavioural Economics, Economic History
- Mathematics, Statistics, and Statistical Computing.

Cumulative GPA: 3.9 / 4.0

Volunteer Experience

Community First Aider | St John Ambulance

Sept 2026 – ongoing

- Provided event first aid and supported emergency response for various festivals, sports games, and other events around London.

Community Support Volunteer | The Landing

Sept 2022 – Sept 2024

- Provided individual support and assisted in managing a community space dedicated to supporting LGBTQ+ individuals.

Member | LEGACY

Sept 2015 – June 2016

- Co-authored and presented a pivotal motion to my local school board leading to the establishment of the Edmonton Public Student Senate, promoting student engagement in educational governance.
- Available at Student Leadership Recommendation Report

Awards and Achievements

- LSE joint prize for highest overall performance in Local Economic Development – 2025
- LSE prize for the best dissertation in Local Economic Development – 2025
- UAlberta Dean's Honour Roll – 2019, 2020, 2021, 2022
- Faculty of Science Undergraduate Scholarship – 2019, 2020
- Economics Merit Scholarship – 2019
- The Harry E. Balfour Scholarship in Mathematics – 2019
- A William and Mary Hawrysh Memorial Leadership Scholarship – 2018
- McNally School's Schulich Leader Nominee – 2018
- Edmonton Public Schools' District Recognition Award for 2015-2016 school year

Publications

Kent Butt. "Rating the Rankings: NHS acute trust league tables" *CEPA white paper | Sept 2026.*

- Performed an econometric assessment and policy review of how NHS league tables were performing. Found that trust type and geography explained around 40% of score variation, and that league tables are a particularly noisy signal. Built alternative rankings adjusted for structural factors, based on common metrics, and limited to patient-facing metrics, and provided some policy commentary and recommendations.

Matenchuk, B.A., et al. "Child Growth Trajectories From Birth To Three Years: The Impact Of Prenatal Physical Activity." *Medicine & Science in Sports & Exercise*, 2023.

- Performed statistical analysis of the data as part of a large research team.

Technical Skills

- Programming: R & R Markdown, Python & Jupyter notebooks, Matlab, Stata
- Software: SPSS, QGIS, Microsoft suite of apps (Excel, Word, etc.), Google suite of apps (Drive, Docs, Sheets, etc.)