

# Sky Allinott

---

Edmonton, AB | 867-875-8763 | skyallinott@gmail.com | [skyallinott.com](https://skyallinott.com)

## Education

- **Master of Arts, *Economics* (GPA: 3.7)**

University of Alberta (Edmonton, AB)

September 2021 – June 2022

- **Bachelor of Arts, *Honours Economics* (GPA: 3.9)**

University of Alberta (Edmonton, AB)

September 2016 - April 2021

## Experience

### **Business Analyst (Urban Planning & Economy)** – City of Edmonton – *May to Sept. 2021*

- Presented models and analysis to audiences of varying knowledge.
- Forecasted a variety of quarterly permit volumes using both machine learning and econometric models.
- Quantified the positive effect to business owners and developers of the city's red tape reduction.
- Created a system to easily update and forecast several key external variables at once.

### **Graduate Teaching Assistant** – University of Alberta – *Sept. 2021 to June 2022*

- Held office hours and evaluated students for intermediate microeconomic and macroeconomic courses (ECON 281 & ECON 282)
- Improved upon adaptability, as each student had different needs.
- Employed consistency and attention to detail in student evaluation.

### **Citizenship Assistant (IRCC)** – Government of Canada – *June 2019 to Dec. 2020*

- Interacted directly with the public during citizenship tests and ceremonies.
- Assisted in creating an efficient workflow for Citizenship Officers.
- Worked on self-directed projects.
- Learned to make decisions on problems that deviated from standard procedure.

# Academic Research

## Effect of LRT Expansion on Neighbouring Properties: Evidence from Edmonton Alberta

- Mapped out the economic impact of adding LRT stations to neighbourhoods by property value, distance to the station, and project phase
- Utilized quantile difference in difference for effect across property values, and a dosage model for effect across distance, finding that homes within 1 kilometre felt an approximately 2 to 6.5% appreciation
- Utilized panel data from the City of Edmonton data portal
- This was written as a final's Master project in ECON 999 - Directed Research Project

## Determinants of Aggregate Investment: Comparing Approaches

- Compared a traditional static equation for determining investment, to a variety of more advanced time series methods, such as ARIMA, VAR, and seasonal MARIMA models
- Used each model to create forecasts of investment and employed statistical tests to compare the predictive power of each model to one another
- Utilized time series data from Statistics Canada
- This was written as a final paper for ECON 509 – Time Series Econometrics

## Impact of Childhood Computer Access on Wage Determination

- Tested a theory that higher childhood computer access correlated to higher wages as an adult
- The paper found that each additional year of computer access led to approximately 1.2% higher wages
- Utilized longitudinal data from the National Longitudinal Survey of Youth: 1997 Cohort
- This was written as a final paper for ECON 599 – Applied Econometrics

## Price Effect of a Gasoline Cartel

- Calculated the effect on price of a retail gasoline cartel in Ontario
- Used structural break detection methods and difference in difference
- Weak evidence of a cartel in weekly data, stronger evidence in daily data that the cartel caused changes in firm strategy
- Utilized weekly and daily time series data from Kalibrate
- This was written as a paper for ECON 699 – Advanced Competition Policy

# Personal Projects

## Logit Forecast of Stock Prices

- Constructed a Logit model to forecast whether Microsoft stock price would increase or decrease the next day.
- Used direct forecasting to obtain a probability that stock price increases.
- Used cross validation to obtain the optimal number of lags in the model.
- Employed bootstrapping to obtain a prediction interval around my estimate.

## ARIMA Forecast of Canadian GDP

- Constructed a basic ARMA model to forecast Canadian GDP to the end of 2021.
- Used R for data manipulation and selection of the optimal ARMA model. Statistical tests for stationarity and serial correlation were also conducted.

# Achievements

- **Teaching Assistantship** (University of Alberta, 2021)
  - Awarded to select candidates to the Masters of Economics program based on outstanding scholastic standing.
- **Emerson and Tang Family Scholarship** (University of Alberta, 2020)
  - Awarded to a student with superior academic achievement entering any year of study for a Bachelor of Arts with a major or minor in Economics and has demonstrated involvement in sports.
- **KD Verville Scholarship for Excellence in Economics** (University of Alberta, 2020)
  - Awarded annually to a student with superior academic achievement entering their second, third, or fourth year of the Honors Economics program.
- **Gwendolyn Ewan Scholarship** (University of Alberta, 2019)
  - Awarded for superior academic achievement to a student from the Northwest Territories.
- **Dean's Honours List** (University of Alberta, 2019, 2020 & 2021)
  - *Presented to students possessing a 3.5 GPA or better on a full-time course load.*