THOMAS DEVINE

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EDUCATION

Carnegie Mellon University **2018–2021**
MS in Economics; GPA 3.02
Awards: $138,000, National Science Foundation Graduate Research Fellowship in Economics

University of North Dakota **2015–2018**
B.S. Mathematics, Minor in Statistics; BA Economics; GPA 3.78
Awards: McNair Scholar; speaker at UND's Phi Beta Kappa induction ceremony

WORK AND RESEARCH EXPERIENCE

Carnegie Mellon University **Summer 2020**
Master's Thesis *Pittsburgh, PA*

· Using R and a DID framework, I modeled the adoption of Solar Panel installations and a neighbor's decision to install affects peers at the block-level; I used public Census and ACS data—see my personal website

Carnegie Mellon University **Jan. 2020–Present**
Teaching Assistant *Pittsburgh, PA*

· (Graduate) Statistical Foundations for Business Analytics (46-883), 2 courses; Forecasting Time Series Data (45-912), 1 course. (Undergrad.) Political Economy (73-332), 2 courses; Overall, I answered questions in R and explained class concepts in statistics, econometrics, and economics

Topic Modeling with Machine Learning (project in progress) **Feb. 2021–Present**

· Using R (tm, openNLP), I parse comedy monologues (stand-up specials) to build a recommendation application. I use LDA, LSA, and NMF to assess topics. I map/cluster specials, topics, and comedians to defined genres of comedy and to one another. I make a functional API to showcase the project.

CNA Financial **June–August 2018**
Actuarial Intern - Long Term Care *Chicago, IL*

· Using R, SAS, and Alteryx, I converted (SAS to Alteryx) a monthly 4-step process in that aggregates counts for incurred but not reported claims and terminated but not reported claims for group and individual polices; I converted (SAS to R) a monthly close process that aggregates claim counts

Carnegie Mellon University **May–July 2017**
Undergraduate Researcher in Financial Math *Pittsburgh, PA*

· Using R and Python, my team web-scraped put option prices into a gradient descent algorithm for chosen stocks on the DJIA and compared the efficiency of random sets of stocks to calculate error (SSE)

TECHNICAL AND ANALYTICAL SKILL SET

Skills	R, Java, Python, Matlab, SQL, LaTeX, Stata, SAS, Alteryx, Spanish (Intermediate)
	IDEs: RStudio, Spyder, DBeaver, IntelliJ
Exams/Other	Actuarial Exam P (01/2017)

LEADERSHIP ROLES

· **CMU Club: Actuarial Science** **President** **2018–2021**
· **UND Clubs: Chess, Actuarial Science, Political** (VP) **President**x2, **VP**x1 **2016–2018**