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 (years)	R (5.5), 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**