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Jacob McDougle

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## PROFESSIONAL EXPERIENCE

### Columbia University, New York, New York

Jun. 2011 to Present

#### Finance Manager, Radiology

Apr. 2022 to Present

- Develop all departmental financial plans for new ventures and clinical expansion
- Restructured, verified, and automated department datasets, reports, and KPIs leading to increased accuracy and decreased turnaround times for financial and productivity reporting using Excel (and VBA) as well as python
- Present findings to senior management

#### Senior Financial Analyst, Office of Management and Budget

Aug. 2016 to Apr. 2022

- Review and report on annual budgets, quarterly estimates, and quarterly spend for the Engineering, Arts and Sciences, Architecture, and Social Work departments totaling hundreds of millions of dollars
- Introduced the use of the Python programming language to OMB to automate many time-consuming tasks and enabled time series analysis not done prior (the ten-year historical dataset is two billion cells)
- Responsible for all daily reports within OMB. Automated all inherited reports (using VBA and Python) and wrote new ones. Composed new quarterly reports used by senior management in trustee meetings

#### Senior Analyst, Facilities Department

Jun. 2014 to Aug. 2016

#### Analyst, Facilities Department

Jun. 2011 to Jun. 2014

- Authored, implemented, and managed the reporting system for all workforce hours and spend done by contractors working on the \$8 billion Manhattanville expansion of the University in line with commitments to the state government and local community to have 40% of workforce hours and 35% percent of spend performed by minorities, women, and local (MWL) residents and vendors, respectively
- Compile, verify, and produce workforce and expenditure reports for Columbia management both to be used internally and to be presented to the local community board and state (on a quarterly basis)
- Supervised analyst responsible for reporting systems

### Verisk Analytics, Jersey City, New Jersey

Dec. 2007 to Jun. 2010

#### Actuarial Analyst, Personal Auto Division

- Performed loss cost reviews and analysis, presented results to an advisory panel, submitted state filings
- Calculated and modeled premium trend factors and created filing exhibits for the entire department
- Automated complex premium trend calculations and exhibit creation using VBA

### Bespoke Education, New York, New York

Jun. 2005 to Dec. 2007

#### Tutor and Curriculum Developer

- Tutored students in all levels of high school math and science classes, as well as for the SAT I, SAT II, and Advanced Placement exams (Calculus AB/BC, Statistics, Microeconomics, Macroeconomics)
- Developed mock SAT II subject tests and SAT Mathematics study materials

## EDUCATION

**Columbia University**, New York, New York – M.A. Statistics

**2015**

**Vassar College**, Poughkeepsie, New York – B.A. Mathematics and Economics Double-Major

**2005**

## SKILLS AND DESIGNATIONS

**Computer:** Python, VBA, Excel superuser, Tableau, SQL, Epic, Cognos, FDS, SlicerDicer, LaTeX

**Actuarial Exams:** P1 (Probability), FM2 (Financial Math), 3F (Financial Economics), 3L (Life Contingencies)

**Chartered Property Casualty Underwriter**