

# Jason Becker

## *Strategic Data Analyst*

### Contact

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### Computer Skills

*Basic:* Python, Java,  
XML, WEAVE, SPSS  
L<sup>A</sup>T<sub>E</sub>X

*Intermediate:* SQL,  
Stata, HTML, CSS,  
Basecamp, Microsoft  
Project, Microsoft  
Visio, Microsoft Access,  
Linux

*Advanced:* R, Mac  
OSX, Microsoft Windows,  
Microsoft Office

### Education

**Urban Education Policy, A.M.,** *Brown University.* **2009-2010**

Summa Cum Laude

**Chemistry, Sc.B.,** *Brown University.* **2009-2010**

### Experience

**Strategic Data Analyst** **2012–Present**

ANNENBERG INSTITUTE FOR SCHOOL REFORM, Providence.

Cleaned and munged seven years of Providence Public School District data. Developed a predictive model of high school success based on early indicators from middle school and ninth grade. Fostered a new collaborative relationship between a university-based research non-profit and the largest school district in the state, which included data sharing agreements and greater access to leadership.

#### Achievements:

- Adopted and developed business rules to deal with common data challenges and implemented these rules using R.
  - Contributed to eeptools, an open source R package for education data analysts.
- Developed a predictive model based on middle school data that identifies students at risk of not graduating that is being incorporated into new reports available to guidance counselors, teachers, and external partners.
- Presented research at the College Readiness Indicators Systems Emerging Knowledge Forum on how to engage community groups in comprehensive systems of support for high school students.
- Lead conceptualization, writing, and submission of Institutes of Education Sciences Researcher-Practitioner Partnership grant with the Annenberg Institute of School Reform and Providence Public School District as key partners.

## Research Specialist

2010–2012

RHODE ISLAND DEPARTMENT OF EDUCATION, Providence.

Developed project plans, lead weekly status meetings, monitored cross-project dependencies, documented business requirements, and co-architected integration solutions for technical projects. Co-designed logical data models and documented validation rules for new data collections. Developed the quantitative measures for accountability systems.

### Achievements:

- Systems Integration
  - Co-managed cross-project dependencies and priorities for all technical projects related to Race to the Top and the State Longitudinal Data Systems Grant.
  - Assisted leadership to make resource allocation decisions based on complexity of implementation, cost, and importance for end users.
  - Co-developed use-cases and process maps of complex integration between external vendor products and other internal or external data systems. Developed and approved processes for data access, sharing, and integration to meet these needs.
  - Remedied gaps in existing vendor products by collaboratively developing feasible technical or business process solutions.
  - Developed process maps for complex quality assurance needs like teacher roster verification.
- Data Collection
  - Co-designed the logical data model for the first statewide teacher-course-student data collection. Greater than 75% of students were reported properly to the state daily within the first two months of implementation in school-year 2012-2013.
  - Designed the logical data model for Charter School Lottery data collection and successfully collected all lottery information at the state level.
- Automated Data Reporting and Analysis
  - Constructed data profiles with over 100 graphics and tables per school using SQL to provision the data and R to generate HTML profiles for each school.

## Teaching

**Adjunct Lecturer, Brown University, Providence.**

2013

Taught Evaluating the Impact of Social Programs, an upper-level education policy and public policy course focused on experimental and quasi-experimental methodology.

**Guest Lecturer, Brown University, Providence.**

2012–2013

Invited guest lecture to undergraduate and graduate-level economics of education courses. Subjects include education finance equity and the economics of federalism