

Elliot Robson

EDUCATION

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|--------------------------------------|-------------------------------|-------------|
| Yale University | Linguistic Anthropology | B.A. 2005 |
| University of Michigan – Ford School | Public Policy / Methods Track | M.P.P. 2012 |

SKILLS

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|------------------------|-------------------------------|----------------------|
| Large Dataset Analysis | Educational Outcomes Analysis | Facilitation |
| Program Evaluation | Group Behavior Theory | Quantitative Methods |

EMPLOYMENT HISTORY

Eduworks Corporation (VP of Operations and Analytics)

Corvallis, Oregon (Remotely Located in Portland, OR.) 2014 - Present

- Research, design, and prototype automated training task analysis software
- Research, design, and prototype document analysis and search algorithms
- Analyze functionality and efficacy of Eduworks educational and training products
- Apply statistical techniques to automate analysis of domains and learning outcomes

Amplify Learning (Head Games Research Analyst: Automated Reasoning Team)

New York, NY 2012 - 2013

- Design analytic systems/structures for new curricular offerings and video game development.
- Research and build engagement models for Amplify Games.
- Research and implement player profiles and metrics.

UNESCO AsiaPacific (Policy Analyst Intern)

Bangkok, Thailand. 2011

- Lead the joint UNESCO and Korean Institute of Science and Technology (KIST) analysis of education information communication technology (ICT) infrastructure in the AsiaPacific region.

Wireless Generation (Data Analyst)

New York, NY. 2007 – 2010

- Lead quantitative research based on large dataset techniques applied to Wireless Generation's multimillion student database and synthesized results with qualitative research from multiple social science disciplines.
- Lead data analysis for successful bids for state and national RFPs.
- Designed early literacy software to identify early signs of weakness.
- Designed and implemented student grouping and matching algorithms to use screening data to create meaningful cohorts and help group students within classrooms for targeted instruction.

Other Positions Held:

- Founder of Ylena Summer program (a summer educational program for disadvantaged youth). Member of Board of Directors. (2012 – Present).
- Member Data Advisory Board for Horizon's National Summer Program (2012 – present)

Funded Research and Development

- PI on a project that applies structural equation modeling to determine the goodness-of-fit of competency and domain models to observed assessment data.
- Co-PI on a project that predicts learning rates of competencies in a target domain based on assessment data in a source domain through the use of Bayes Nets, latent competencies, and active machine learning methods.

Publications

1. While working at Wireless Generation and Amplify Learning Mr. Robson evaluated and wrote reports for over 25 school districts, ranging from major urban school districts to impoverished rural districts. These reports focused on the effects of interventions, recommendations for intervention selection, and projected impact of new technology on the district. **Note:** Both companies required confidentiality and non-disclosure agreements that prevent disclosure of specific products and neither company supported publication (typical of the curriculum products industry). The following two publically available products are representative of Mr. Robson's products.
2. *Built the vocabulary model and contributed significantly to all other aspects of:* Sharp, D. (2009). From science to solution: Research support for the Burst®: Reading approach to reading intervention. Wireless Generation, New York, NY. 2009. Retrieved from http://www.amplify.com/pdf/white-papers/BR_White_Paper_0510.pdf.
3. *Designed the adaptive student model used by School of One:* See http://schools.nyc.gov/NR/rdonlyres/9435AD08-90F3-42AA-838C-6372C3B5D2E6/0/SchoolofOneBrochure_FINAL.pdf
4. Robson, E., & Robson, R. (2014). Automated Content Alignment for Adaptive Personalized Learning. Interservice/Industry Training, Simulation, and Education Conference, Orlando, FL. 2014