



# MICHAEL ANDERSON

## Senior Psychometrician

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### SUMMARY

Dynamic Psychometrics Specialist with over 8 years of experience in the educational sector, focusing on the development and validation of assessment tools. Proven expertise in statistical analysis and psychometric modeling, ensuring that testing products meet rigorous standards of reliability and validity. Skilled in applying advanced statistical methods and software such as R and SPSS to analyze data and improve assessment outcomes.

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### WORK EXPERIENCE

#### Senior Psychometrician National Education Assessment Institute

*Jan 2023 - Present*

- Led the psychometric analysis of state-wide assessments, ensuring compliance with educational standards.
- Developed item response theory models to enhance the accuracy of test scores.
- Conducted workshops for educators on the interpretation of assessment data.
- Collaborated with cross-functional teams to implement data-driven decision-making processes.
- Evaluated the effectiveness of assessment tools, leading to a 20% increase in reliability scores.
- Published findings in educational journals, contributing to the body of knowledge in psychometrics.

#### Psychometric Analyst EdTech Solutions Inc.

*Jan 2020 - Dec 2022*

- Assisted in developing and validating online assessments for K-12 education.
  - Analyzed data using Mplus and R to provide actionable insights on student learning outcomes.
  - Designed user-friendly reports to communicate assessment results to non-technical stakeholders.
  - Participated in item writing workshops to create high-quality assessment items.
  - Monitored test administration procedures to ensure fidelity and integrity.
  - Contributed to the development of machine learning algorithms for predictive analytics in education.
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### EDUCATION

#### Master of Science in Educational Psychology, University of California, 2014

*Sep 2019 - Oct 2020*

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### ADDITIONAL INFORMATION

- **Technical Skills:** Psychometrics, Statistical Analysis, R, SPSS, Educational Assessment, Data Interpretation
- **Awards/Activities:** Received the 'Innovative Assessment Award' from the National Association for Educational Assessment in 2021.
- **Awards/Activities:** Improved test reliability by 15% through rigorous item analysis and revision.
- **Awards/Activities:** Presented research findings at the International Conference on Educational Assessment in 2019.
- **Languages:** English, Spanish, French