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| Tanner Phillips801-668-8265Tanner.matthew.phillips@gmail.com |
| I’m an educational data scientist who focuses on using AI and machine learning to improve education. I have expertise in deep learning NLP models, high-dimensional data reduction and modeling, and theories of learning and instruction. I am constantly learning and seeking new opportunities to use data to improve education. |

# Experience

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| 2019 - PresentGraduate Research Assistant & Instructor, Indiana UniversityConducted research on the use of artificial intelligence to improve computerized K-16 education. Taught and developed courses in instructional technology and educational data science at the undergraduate and graduate level. Coordinated technical projects across multiple universities. |
| 2015 – 2018Instructional Designer & Product SpecIalist, QualtricsLead instructional designer for K-12 segment. Built first-ever certification on Qualtrics’ voice of the customer software from scratch.  |
| 2015 – 2018Research assistant, brigham young universityDesigned, implemented, and analyzed research on teaching undergraduate biology. |

# Education

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| Expected may 2023ph.d., instructional technology, indiana universityCoursework in learning and instructional theory. Research in artificial intelligence tools in education, especially natural language processing. Professional service through mentoring, academic reviewing, and graduate organizations. |
| expected may 2022M.S., statistics, indiana universityAdvanced courses in statistical computing, machine learning, nonparametric methods, and educational measurement. Coursework in R, Python, and C++. AUGUST 2016b.s., statistics, brigham young universityFoundational coursework in Frequentist and Bayesian methodology and theory. President of BYU Analytics club. Barry Goldwater Scholarship Nominee. |

# Skills

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| * **R.** Keras, statistical and machine learning models, API, tidyverse, Rshiny web applications.
* **Python.** Proficient with Pandas, Sklearn, NumPy, TensorFlow.
* **SQL, HTML/CSS, C++.** Working knowledge.
 | * **NLP Methods.** RNN, Transformers, GPT3, BERT, Word2Vec embeddings.
* **Learning and Instructional Theory.** Adaptivescaffolding, self-guided learning, distributed cognition, socio-cultural theory.
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* **Some methods I’ve used in peer reviewed research:**
	+ GLMs with random effects
	+ PCA
	+ Random forest
	+ SVM
	+ LSTM neural networks
	+ Word embeddings
	+ Latent Dirichlet analysis
	+ Social network analysis

# Academic ActivitIes

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| * 15+ Conference Presentations
* 5 peer-reviewed publications (3 as first author)
 | * $12,000 in personally procured grant funding
* Service reviewing for journals and conferences.
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For more information on academic publications, service, awards, and activities see my website.



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