

Jack Kelly

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Research interests	Automated game design, social simulation, authoring tools, language models	
Education	University of California, Santa Cruz	Santa Cruz, CA
	Ph.D. in Computational Media	September 2024 – December 2028
	<i>Advised by Elin Carstensdottir</i>	
	M.S. in Computational Media	September 2022 – August 2024
	<i>Advised by Michael Mateas and Noah Wardrip-Fruin</i>	
	Brown University	Providence, RI
	B.S. in Computer Science	September 2014 – May 2018
Awards and honors	Best Paper, AIIDE	2023
	Best Paper, FDG	2023
Conference papers	There and Back Again: Extracting Formal Domains for Controllable Neurosymbolic Story Authoring	
	Jack Kelly, Alex Calderwood, Noah Wardrip-Fruin, Michael Mateas.	
	AIIDE 2023. 28% acceptance. Best Paper.	
	https://doi.org/10.1609/aiide.v19i1.27502	
	Shoelace: A Storytelling Assistant for GUMSHOE One-2-One	
	Devi Acharya, Jack Kelly, William Tate, Maxwell Joslyn, Michael Mateas, Noah Wardrip-Fruin.	
	FDG 2023. 39% acceptance. Best Paper.	
	https://doi.org/10.1145/3582437.3582475	
Workshop papers	Paradise: An Experiment Extending the Ensemble Social Physics Engine with Language Models	
	Jack Kelly, Michael Mateas, Noah Wardrip-Fruin.	
	https://doi.org/10.1145/3649921.3659841	
	FDG 2024. Workshop on Game Research Software System Reuse	
	Towards Computational Support with Language Models for TTRPG Game Masters	
	Jack Kelly, Michael Mateas, Noah Wardrip-Fruin.	
	FDG 2023. Workshop on Human-AI Interaction Through Play.	
	https://doi.org/10.1145/3582437.3587202	

Industry experience	Transform (acquired by dbt Labs)	Seattle, WA
	Data Engineer	January 2022 – December 2022
	<ul style="list-style-type: none"> • Worked across data infrastructure to integrate Transform’s centralized metrics store (now the dbt Semantic Layer) with upstream data sources (Snowflake, BigQuery, Redshift) and downstream consumers (Slack, Google Sheets, Excel). 	
	Yelp	San Francisco, CA
	Machine Learning Engineer	August 2018 – December 2020
	<ul style="list-style-type: none"> • On the Contribution Targeting team, developed and launched a new visit attribution model with PySpark and XGBoost using website and app interaction data; increased business reviews by 2% sitewide upon integration with the review suggestion system. • On the Data Quality team, rebuilt Yelp’s chain business identification system to use human-in-the-loop feedback, resolving persistent data quality issues. 	
Service and teaching	Teaching Assistantships	
	CMPM 176, <i>Game Systems</i>	Spring 2025
	CMPM 80K, <i>Foundations of Interactive Game Design</i>	Summer 2024
	CMPM 80K, <i>Foundations of Interactive Game Design</i>	Winter 2024
	CSCI 1570, <i>Design and Analysis of Algorithms</i>	Fall 2017
	CSCI 1951A, <i>Data Science</i>	Spring 2017
	Peer Review	
	AIIDE	2023, 2024, 2025
	ICIDS	2024, 2025
	Wordplay	2024
Programming languages	Proficient: Python, Javascript/Typescript.	
	Familiar : C#, Java, R.	