## DAVID A. LINGENBRINK JR.

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Education	Cornell University, Ithaca, NY2014 - 20Ph.D., Operations Research and Information EngineeringGPA: 3.	19 80
	Relevant Graduate Coursework: Game Theory, Statistics, Stochastic Processes, Probability, Machine Learning, Mathematical Programming	
	Harvey Mudd College, Claremont, CA2010 - 20B.S., MathematicsDean's List (All Semesters)GPA: 3.	14 59
	Relevant Coursework: Data Structures and Program Development, Algorithms, Analysis, Measu Theory, Representation Theory, Complexity Theory, Abstract Algebra, PDEs, Financial Economi	re cs
	Semester abroad in Moscow for <i>Math in Moscow</i> program with AMS scholarship.	
Relevant Experience	<ul> <li>Software Engineer, Bloomberg, New York, NY</li> <li>Contributing to Apache Kafka-based derivatives volatility modeling system</li> <li>Migrating systems from Sun to Linux</li> <li>Leading reading group through machine learning basics course</li> </ul>	) -
	<ul> <li>Forecasting Internship, Amazon, New York, NY</li> <li>Trained quantile regression model to verify neural network demand forecasts</li> <li>Model provided intuition for black box model</li> </ul>	17
	<ul> <li>Machine Learning Internship, Bloomberg, New York, NY</li> <li>Created language models using word2vec's distributed word representations</li> <li>Modified word2vec to use a one-sided context window</li> </ul>	16
	<ul> <li>Software Development Internship, Amazon, Seattle, WA</li> <li>Fully integrated a new data source into Amazon's outbound labor model</li> <li>Made UI and back-end tweaks to a internal labor model website</li> </ul>	14
	<ul> <li>Mathematics Research, Harvey Mudd College</li> <li>Created fast Fourier transforms for matrices over finite fields</li> <li>Derived the Borda count as the average of all positional voting methods</li> <li>Added algorithms for handling polytomies to Jane, a computational biology tool for matching host and parasite evolutionary trees</li> </ul>	14
Publications	<ul> <li>D. Lingenbrink and K. Iyer, "Optimal Signaling Mechanisms in Unobservable Queues." Operation Research. Forthcoming.</li> <li>First Place, INFORMS Junior Faculty Interest Group Paper Competition. 20</li> </ul>	ns 17
	D. Lingenbrink and K. Iyer, "Signaling in Online Retail: Efficacy of Public Signals." Submitted.	
	J. Anunrojwong, K. Iyer, and D. Lingenbrink "Persuading Risk-Conscious Agents: A Geometr Approach." <i>Submitted</i> .	ric
	S. Gutekunst, D. Lingenbrink, and M. Orrison, "The Mean(est) Voting System." Math Horizon 2016; 24(1), 10-13.	ıs.
Computer Proficiency	Python, C++, R, MATLAB, Mathematica, Java, Scala, ${\rm I\!AT}_{\rm E}\!{\rm X}$	