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November 14, 2021

School of Operations Research and Information Engineering
206 Rhodes Hall
Cornell University
Ithaca, NY 14853-3801

Dear Members of the Faculty Search Committee,

I am writing to apply to the position of Assistant Professor in the School of Operations Research and Information Engineering at Cornell University. I am currently a graduate student at Carnegie Mellon University in the Computer Science Department. My doctoral thesis work is advised by Prof. Mor Harchol-Balter and Prof. Guy Blelloch. I expect to receive my PhD in Computer Science from CMU in June 2022.

Broadly speaking, I am interested in *decision making under uncertainty*, especially for *resource allocation* problems. This area spans a wide range of topics, such as provisioning cloud services, setting prices in complex markets, inventory and supply chain management, and staffing call centers. In my thesis work, I have focused on the specific area of *scheduling and queueing theory*.

Over the course of my PhD, I have made multiple significant contributions to scheduling and queueing theory, as recognized by *four best paper awards and multiple other recognitions*, including awards from INFORMS APS, ACM SIGMETRICS, and IFIP PERFORMANCE. My contributions include the first queueing theoretic analyses of multiserver scheduling, as well as the most general presentation to date of the Gittins index policy in queues.

In addition to my research, I am committed to excellence in teaching and to promoting diversity, equity, and inclusion (DEI). I have established track records in both of these. In particular, this semester, I taught a discussion-based course on DEI topics and their relationship to STEM academia.

Please find attached my CV, Research Statement, Teaching Statement, DEI Statement, and three of my papers (two publications and one preprint, the latter of which is written for a broad audience). In addition, my website (https://ziv.codes) has speaking samples in the form of presentation videos. Thank you for your consideration.

Sincerely,

Ziv Scully