

December 17, 2022

Dear whom it may concern,

I am writing to apply for the Professor of Practice in Data. I heard about this position from my former advisor Professor Elaine Liu, who spoke to Professor Patrick Button during the Southern Economic Association Conference. I am a Senior Lecturer in Data Analytics at Brandeis International Business School. I received a Ph.D. in economics at the University of Houston, where I have developed research fields in applied microeconomics. My award-winning teaching experience and modern research skills would be significant assets to the Data Hub: Tulane Center for Data Literacy.

The core value of the Data Hub is in line with my research agenda. My research uses modern applied econometric methods and data preparation techniques from machine learning literature. I research how to best expose the unknown underlying structure of the problem to economics toolkits. The specificity of my research approach originates from my knowledge of data science. Data preparation is the process of transforming raw data into a manageable form for modeling. In principle, it looks relatively simple, but it entails a high-level class of techniques, each with a range of different algorithms. I believe the data preparation techniques such as APIs, web scraping, etc., would expand the scope of economics research, allowing the researchers to use more data globally. I have broad expertise in Python, R, Stata, MATLAB, GIS, SQL, HTML, CSS, and JavaScript. All these skills are currently put to good use in my dissertation, "*Effects of Entry Economic Conditions on the Career of Economics Ph.D.*" I believe that I can contribute to the recognition that Data Hub already receives for its research and education.

I am privileged to be surrounded by gifted professors and colleagues at the University of Houston. I have learned the importance of effective communication from them. They patiently waited for me and always gave me a hand when I got stuck. The lessons I learned from them are why I received the Economics Department Graduate Student Teaching Award in 2021.

Currently, I am teaching data analytics courses at Brandeis International Business School. The Foundation of data analytics teaches students how to do data science with a relational database. Information visualization teaches students the grammar of graphics. Advanced Data Analytics teaches theory and best practices of modern business analytics with particular attention to predictive modeling in machine learning. The Introduction to Natural Language Processing aims to survey the foundations in text analysis and provides the practical applications of a neural network system. I have included the syllabus in the application packages.

Also, I have included my curriculum vitae and contact information for three references. Please contact me with any questions or requests for additional materials or documentation. I am willing to discuss this opportunity with you at your convenience.

Sincerely,

Yeabin Moon  
Senior Lecturer in Data Analytics

Brandeis International Business School

Email: [yeabinmoon@brandeis.edu](mailto:yeabinmoon@brandeis.edu)

Web: <https://www.yeabinmoon.com/>

**Elaine M. Liu** (Chair)

Associate Professor

Department of Economics

University of Houston

Phone: 713-743-3861

E-mail: [emliu@uh.edu](mailto:emliu@uh.edu)

**Vikram Maheshri**

Associate Professor

Department of Economics

University of Houston

Phone: 713-743-3833

E-mail: [vmaheshri@uh.edu](mailto:vmaheshri@uh.edu)

**Chinhui Juhn**

Henry Graham Professor

Department of Economics

University of Houston

Phone: 713-743-3823

E-mail: [cjuhn@uh.edu](mailto:cjuhn@uh.edu)

**Ruxandra P. Boul** (Teaching)

Undergraduate Program Director

Department of Economics

University of Houston

Phone: 713-743-3836

E-mail: [rprodan@uh.edu](mailto:rprodan@uh.edu)