

Enthusiastic data scientist with strong organizational skills. Ability to handle multiple data engineering projects simultaneously with a good management experience.

Work History

2020-02 - Current	Associate Professor <i>University of Texas MD Anderson Cancer Center, Houston</i> <ul style="list-style-type: none">Graph database engineering: Building an integrative platform for hypothesis generation using Neo4jSpatial data modeling: Applying geospatial algorithms to cancer tissue images obtained using spatial sequencing technologiesMentoring post-docs and graduate students.
2013-12 - 2019-08	Assistant Professor <i>New York University Langone Health, New York</i> <ul style="list-style-type: none">Data engineering and analysis using next generation sequencing dataSoftware and pipeline developmentStatistical and mathematical modelingDirected and taught programming and machine learning courses.
2011-04 - 2013-11	Research Associate/Fellow <i>Memorial Sloan-Kettering Cancer Center, New York</i> <ul style="list-style-type: none">Bioinformatics pipeline development and integrated analysis of genomics data in cancers
2010-10 - 2011-04	Research Associate <i>Pennsylvania State University, State College</i> <ul style="list-style-type: none">Organized the existing data analysis pipeline (genome alignment, motif discovery, biological interpretation) and provided consultation to the researchers on core computational methods
2008-01 - 2010-09	Research Specialist <i>Stowers Institute for Medical Research, Kansas City</i> <ul style="list-style-type: none">Developed and applied image processing algorithms to microscopy imagesDeveloped a dynamic web-site (PHP + MySQL) that would query and process yeast cell imagesResponsible for high quality image acquisition and microscope maintenance in the institute
2007-01 - 2007-12	Research Intern <i>Knowledge Based Systems, Inc., College Station</i> <ul style="list-style-type: none">Offered significant ideas for logistics management in Oklahoma Air Logistics Center through data miningProposed several cost and time saving measures from directed insights obtained via predictive modelingInitiated business intelligence for aircraft movement operations at the Tinker Air Force Base.

Education

PhD: Computer Science <i>Texas A&M University - College Station, TX</i>
MS: Mathematics <i>Texas A&M University - College Station, TX</i>
MSc: Mathematics <i>Indian Institute of Technology - Madras</i>
BSc: Mathematics <i>University of Madras - Chennai</i>

Publications

<https://pubmed.ncbi.nlm.nih.gov/?term=kasthuri+kannan>

Kasthuri Kannan, PhD

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Contact

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Website

- <https://kannan-kasthuri.github.io/>

Skills

Data engineering/science
Databases (Neo4j, SQL)
Programming (Python, R, C/C++)
Scripts(Perl/Bash), Unix
Bioinformatics
Image processing
Web programming (HTML, CSS, Java script)