

Darius Coelho

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EDUCATION	Stony Brook University , Stony Brook, NY Ph.D. in Computer Science, Advised by Prof. Klaus Mueller Thesis: Methodologies to Enable General Participation in Data Visualization (GPA: 3.92 / 4.0) Sep. 2012 – May 2021 (Expected)	
	Goa University (Padre Conceição College of Engineering) , Goa, India B.E. Information Technology Aug. 2007 – May 2011	
EXPERIENCE	Research Assistant at VAI Lab , Stony Brook University, Stony Brook, NY - Conducted research and published articles in the areas of visual analytics, data science, information visualization, and human-computer interaction. - Developed multiple visualizations and visual analytics interfaces. Sep. 2014 – Present	
	Research Intern at Akai Kaeru , Stony Brook, NY - Assisted in the design of a COVID-19 dashboard to visually explore risk factors in counties across the United States. - Assisted in the development of the COVID-19 dashboard. Jun. 2020 – Aug. 2020	
	Teaching Assistant at SUNY Korea , Incheon, S. Korea - Graded assignments for the Applied Calculus course (AMS 151). - Assisted with conducting experiments for the Classical Physics Laboratory course (PHY 133) Feb. 2013 – Jun. 2013	
PUBLICATIONS	Journal/Conference <u>D. Coelho</u> , B. Ghai, A. Krishna, S. Mankovskii, M. Velez-Rojas, S. Greenspan, K. Mueller, "TaskFinder: A Semantics-Based Methodology to Visualization Task Recommendations," <i>IEEE Transactions on Visualization and Computer Graphics</i> (In submission) J. Lee, <u>D. Coelho</u> , K. Mueller, "Scagnostics Glyphs: A Framework for Illustrating High-Dimensional Data Patterns in 2D Data Layouts," <i>IEEE Transactions on Visualization and Computer Graphics</i> (In submission) <u>D. Coelho</u> , K. Mueller, "Infomages: Embedding Data into Thematic Images," <i>Computer Graphics Forum</i> , 2020. [Best Paper Runner-Up Award at the EuroVis 2020] <u>D. Coelho</u> , R. Trailor, D. Sill, S. Engle, A. Joshi, S. Mankovskii, M. Velez-Rojas, S. Greenspan, K. Mueller, "Collaborative Visual Analytics Using Blockchain," <i>International Conference on Cooperative Design, Visualization and Engineering (CDVE)</i> , 2020 <u>D. Coelho</u> , I. Chase, K. Mueller, "PeckVis: A Visual Analytics Tool to Analyze Dominance Hierarchies in Small Groups," <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2020. [Best Paper Award at the Visual Data Science Symposium (VDS)] T. Im, <u>D. Coelho</u> , K. Mueller, P. De, "Smartphone Based Approximate Localization Using User Highlighted Texts from Images," <i>Pervasive and Mobile Computing</i> , 2018 K. Jayachandran, S. Chilakamarri, <u>D. Coelho</u> , K. Mueller, "A Virtual Reality Grocery Shopping Game to Improve Awareness for Healthy Foods in Young Adults," <i>CEWIT: Emerging Technology for a Smarter World</i> , 2017	

Q. Vo, D. Coelho, K. Mueller, P. De, "WhereAml: Energy Efficient Positioning using Partial Textual Signatures," *IEEE International Conference on Mobile Services (MS)*, 2015

Workshops

D. Coelho, Helen He, Maxim Baduk, K. Mueller, "Eating with a Conscience: Toward a Visual and Contextual Nutrition Facts Label," *VisComm: Workshop on Visualization for Communication at IEEE VIS*, 2020

D. Coelho, K. Mueller, "Data Memes for Personal Visualization," *Workshop on Personal Visualization: Exploring Data in Everyday Life*, 2015

D. Coelho, S. Lee, "Breast and Prostate Cancer Expression Similarity Analysis by Iterative SVM Based Ensemble Gene Selection," *International Workshop on Data and Text Mining in Biomedical Informatics*, 2013

Posters

N. Hoque, D. Coelho, K. Mueller, "Examining the Visualization Practices of Data Scientists on Kaggle," *IEEE VIS*, 2019

D. Zhang, D. Coelho, K. Mueller, "Google Glass for Personalized Augmentations of Data Visualizations," *IEEE VIS*, 2016

D. Coelho, K. Mueller, "A Study of Sparse Detector Designs with Interpolation for Multi-Slice Spiral CT," *IEEE Medical Imaging Conference*, 2015

D. Coelho, S. Ha, S. Cheng, S. Mahmood, J. Kim, K. Mueller, "MemViz: A Tool for Creating Memorable Visualizations," *IEEE VIS*, 2014

TECHNICAL SKILLS

Programming

Python, Flask, JavaScript, HTML/CSS, ReactJS, D3.js, R, C/C++, Unity3D, Qt

Knowledge / Skills:

Data Visualization, Human-Computer Interaction, UI/UX, Statistics

AWARDS

Best Paper Runner-up Award at EuroVis 2020

May 2020

Best Paper Award at the Visual Data Science Symposium at IEEE VIS 2019

Oct. 2019

IT Consilience Creative Program Scholarship awarded by the Ministry of Science, ICT and Future Planning (MSIP) South Korea

Sep. 2013 – Aug. 2016

PROFESSIONAL SERVICE

Journal/External Reviewer

IEEE TVCG

2019-Present

IEEE VIS

2019-Present

EuroVis

2020-Present

ACM TiiS

2021-Present

STUDENTS MENTORED

Adnan Vasanwalla (MS), Mayank Tiwari (MS), Jyoti Singh (MS), Venkata Bhaskaram Varanasi (MS), Gaganraj Maheshwari (MS), Chaitra Hegde (MS), Deepankar Singla (MS), Vibhor Shukla (MS), Shikha Dixit (MS), Bhavarth Chauhan (MS), Tarun Jindal (MS)

2020

Helen He (HS)

2018

Eesha Gothwal (MS), Sarang Pande (MS), Maxim Baduk (HS)

2017