

Darius Coelho

dcoelho@cs.stonybrook.edu | darius-coelho.github.io

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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 |
| | Goa University (Padre Conceição College of Engineering) , Goa, India B.E. Information Technology Aug. 2007 – May 2011 |
| EXPERIENCE | Software Architect (Data Visualization) at <i>Akai Kaeru, New York, NY</i> Contributed to the design and development of the user interface and data visualizations for a no-code / low-code data science platform to help analysts better understand their high-dimensional data. May 2021 – Present |
| | Research Assistant Professor at <i>Stony Brook University, Stony Brook, NY</i> Conducted research and published articles in the areas of visual analytics, data science, information visualization, and human-computer interaction. Sep. 2021 – Present |
| | Research Assistant at <i>VAI Lab, Stony Brook University, Stony Brook, NY</i> Conducted research and published articles in the areas of visual analytics, data science, information visualization, and human-computer interaction. Sep. 2014 – May 2021 |
| | Research Intern at <i>Akai Kaeru, Stony Brook, NY</i> Assisted in the design and development of a COVID-19 dashboard to visually explore risk factors in counties across the United States. Jun. 2020 – Aug. 2020 |
| | Teaching Assistant at <i>SUNY Korea, Incheon, S. Korea</i> Teaching assistant for the Applied Calculus course (AMS 151) and Classical Physics Laboratory course (PHY 133) Feb. 2013 – Jun. 2013 |
| PUBLICATIONS | D. Coelho , N. Gupta, E. Papenhausen, K. Mueller, "Patterns of Social Vulnerability: An Interactive Dashboard to Explore Risks to Public Health on the US County Level," <i>VAHC: Workshop on Visual Analytics in Healthcare at AMIA</i> , 2022. [Best Paper Award at the VAHC 2022] |
| | I. Chase, D. Coelho , W. Lee, K. Mueller, J. Curely, "Networks Never Rest: An Investigation of Network Evolution in Three Species of Animals," <i>Social Networks</i> , 2022 |
| | J. Lee, D. Coelho , K. Mueller, "Scagnostics Glyphs: A Framework for Illustrating High-Dimensional Data Patterns in 2D Data Layouts," <i>Information</i> , 2022 |
| | D. Coelho , K. Mueller, "Infomages: Embedding Data into Thematic Images," <i>Computer Graphics Forum</i> , 2020. [Best Paper Runner-Up Award at the EuroVis 2020] |
| | D. Coelho , Helen He, Maxim Baduk, K. Mueller, "Eating with a Conscience: Toward a Visual and Contextual Nutrition Facts Label," <i>VisComm: Workshop on Visualization for Communication at IEEE VIS</i> , 2020 |
| D. Coelho , R. Traylor, 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 | |

D. Coelho, I. Chase, K. Mueller, "PeckVis: A Visual Analytics Tool to Analyze Dominance Hierarchies in Small Groups," *IEEE Transactions on Visualization and Computer Graphics*, 2020. [*Best Paper Award at the 2019 Visual Data Science Symposium (VDS)*]

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

T. Im, D. Coelho, K. Mueller, P. De, "Smartphone Based Approximate Localization Using User Highlighted Texts from Images," *Pervasive and Mobile Computing*, 2018

K. Jayachandran, S. Chilakamarri, D. Coelho, K. Mueller, "A Virtual Reality Grocery Shopping Game to Improve Awareness for Healthy Foods in Young Adults," *CEWIT: Emerging Technology for a Smarter World*, 2017

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

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

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

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

TECHNICAL SKILLS

Programming

Python, JavaScript, HTML/CSS, React, Redux, TypeScript, D3.js, R, C/C++

Skills:

Figma, REST API, NPM, Jest, Git, Agile/Scrum

Knowledge:

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

AWARDS

Best Paper Award at VAHC 2022 Nov. 2022

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

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| STUDENTS | Adnan Vasanwalla (MS), Mayank Tiwari (MS), Jyoti Singh (MS), Venkata Bhaskaram | 2020 |
| MENTORED | Varanasi (MS), Gaganraj Maheshwari (MS), Chaitra Hegde (MS), Deepankar Singla(MS), Vibhor Shukla (MS), Shikha Dixit (MS), Bhavarth Chauhan (MS), Tarun Jindal (MS) | |
| | Helen He (HS) | 2018 |
| | Eesha Gothwal(MS), Sarang Pande(MS), Maxim Baduk (HS) | 2017 |

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WEB PROFILES scholar.google.com/citations?user=_NsAMDAAAAAJ&hl=en
linkedin.com/in/darius-coelho-241534aa/