

# Darius Coelho

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EDUCATION	<b>Stony Brook University</b> , Stony Brook, NY Ph.D. in Computer Science, Advised by <a href="#">Prof. Klaus Mueller</a> Thesis: Methodologies to Enable General Participation in Data Visualization (GPA: 3.92 / 4.0) 09.11.2012 – 05.20.2021
	<b>Goa University (Padre Conceição College of Engineering)</b> , Goa, India B.E. Information Technology 08.06.2012 – 05.30.2021
EXPERIENCE	<b>Chief Software Architect</b> at Akai Kaeru, Stony Brook, NY - Design and develop visual analytics systems for explainable AI. 06.01.2021 – Present
	<b>Research Assistant Professor - Visiting</b> at 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. 09.01.2021 – Present
	<b>Research Assistant</b> 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. 09.01.2014 – 05.20.2021
	<b>Research Intern</b> 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. 06.03.2020 – 08.15.2020
	<b>Teaching Assistant</b> 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) 02.10.2013 – 06.14.2013
PUBLICATIONS	<b>Journal/Conference</b>
	<a href="#">D. Coelho</a> , 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)
	I. Chase, <a href="#">D. Coelho</a> , 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, <a href="#">D. Coelho</a> , K. Mueller, "Scagnostics Glyphs: A Framework for Illustrating High-Dimensional Data Patterns in 2D Data Layouts," <i>Information</i> , 2022
	<a href="#">D. Coelho</a> , K. Mueller, "Infomages: Embedding Data into Thematic Images," <i>Computer Graphics Forum</i> , 2020. <b>[Best Paper Runner-Up Award at the EuroVis 2020]</b>
	<a href="#">D. Coelho</a> , 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)]**

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

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

05.25.2020

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

10.20.2019

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

09.11.2013 – 08.24.2016

## 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

PROFESSIONAL  
WEB PROFILES

[researchgate.net/profile/Darius-Coelho](https://researchgate.net/profile/Darius-Coelho)  
[scholar.google.com/citations?user=NsAMDAAAAAJ&hl=en](https://scholar.google.com/citations?user=NsAMDAAAAAJ&hl=en)  
[linkedin.com/in/darius-coelho-241534aa/](https://linkedin.com/in/darius-coelho-241534aa/)