Eduardo Faccin Vernier

+31 651731257
Utrecht, Netherlands
efvernier@gmail.com
eduardovernier.github.io

I'm a PhD candidate studying visualization methods for hierarchical and high-dimensional data. I focused my research on dynamic treemaps and dynamic projection techniques, creating comprehensive evaluations and developing state-of-the-art methods.

EDUCATION

Joint PhD in Computer Science — University of Groningen (RuG) and Universidade Federal do Rio Grande do Sul (UFRGS)
August 2017 - September 2021 (estimated)
— Thesis: "Visualization of Dynamic Multidimensional and Hierarchical Datasets"
— Course organization and teaching experience
— Published and presented at high profile conferences and journals
— Collaborated with a large number of researchers and scientists

Master in Computer Science — Universidade Federal do Rio Grande do Sul
March 2017 - August 2017 (didn't finish, upgraded to PhD program after 6 months)

Branetec Exchange Program — University of Groningen
August 2015 - July 2016

Bachelor Degree in Computer Science — Universidade Federal do Rio Grande do Sul — March 2012 - December 2016

PEER-REVIEWED ARTICLES (further information on personal website)

Guided Stable Dynamic Projections
Proc. EuroVis, Zurich, Switzerland (Computer Graphics Forum) - 2021

Quantitative Evaluation of Time-Dependent Multidimensional Projection Techniques
Proc. EuroVis, Norrköping, Sweden (Computer Graphics Forum) - 2020

Quantitative Comparison of Time-Dependent Treemaps
Proc. EuroVis, Norrköping, Sweden (Computer Graphics Forum) - 2020

Selecting and Sharing Multidimensional Projection Algorithms: A Practical View Proc. VISGAP, Norrköping, Sweden - 2020

A Stable Greedy Insertion Treemap Algorithm for Software Evolution Visualization Proc. SIBGRAPI, Foz do Iguaçu, Brazil - 2018

Distinguished paper award
Quantitative Comparison of Dynamic Treemaps for Software Evolution Visualization Proc. VISSOFT, Madrid, Spain - 2018

Best poster award.
Quantitative Comparison of Treemap Techniques for Time-Dependent Hierarchies Proc. EuroVis, Barcelona, Spain - 2017

Metric Evolution Maps: Multidimensional Attribute-driven Exploration of Software Repositories Proc. VMV, Bayreuth, Germany - 2016

PROFESSIONAL EXPERIENCE

Isobar IWS Brazil — Intern, Android Developer
September 2016 - February 2017
Development of prototype applications for Android (Java).

SAP Labs Latin America — Intern, Web Developer
January 2014 - March 2014
Development of a web prototype for the management of Randon's Vehicle Testing Facilities using the SAPUI5 framework.

LANGUAGES

Portuguese - Native
English - Fluent
Spanish - Intermediate
Dutch - Intermediate

ACADEMIC PROJECTS

NEMO Project (RuG/*UMCG/Ziuz*)
September 2020 - (ongoing)

Collaboration in a large-scale project with teams of medical and machine learning experts to develop classifiers and gain insight into hyperkinetic movement disorders.

Scientific Visualization and Computer Graphics Group (*RuG*)
November 2015 - July 2016 and
June 2017 - July 2017

Development of temporal and high dimensional data visualization techniques applied to understanding software quality metrics evolution in open source projects.

Basin Modeling Lab (*UFRGS*)
May 2014 - December 2014

Development of methodologies and tools for the forecast and response to natural catastrophes in collaboration with IEEE SIGHT and Civil Defence RS. Focus on image processing and high definition large area mosaicing of aerial photography.

PET Computação Group (*UFRGS*)
October 2012 - January 2014

Instructor on multiple editions of Arduino and C Language courses; Collaborator on the development of small-scale robotics projects.

OTHER PROJECTS

TC de Uithof - *Technical committee*
2020 - 2021 - Development of tennis training enrolment and control systems. Built telegram bots hosted at AWS that notify members of freed training spots in real-time with 300+ subscriptions.

Bike de Boa - *Mobile Developer*
2017 - 2019 - Open source project that maps the bike parking infrastructure in Brazil with 200k+ visits.
bikedeboa.com.br