Aviral Goel

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Research Interests

Areas Programming Languages • Software Engineering • Computer Systems • Compilers

Techniques Empirical Evaluation • Dynamic Analysis • Static Analysis

Software Skills

Languages R • C/C++ • Python • Racket

Tools Linux • Git

Education

'17-Present **Ph.D**, Computer Science

Advised by Dr. Jan Vitek.

Northeastern University, Boston, USA

'16-'17 M.S, Computer Science

GPA-4.0/4.0.

Northeastern University, Boston, USA

'08-'12 **B.E**, Electronics and Communication Engineering Netaji Subhas Institute of Technology, New Delhi, India 81%-First Class with Distinction.

Industry Experience

May-Aug'19 Oracle Austria GmbH, Linz, Austria.

Research Assistant

Feb-Dec'15 Institute for Stem Cell Biology and Regenerative Medicine, Bengaluru, India.

Technology Manager

Sep'13-Feb'15 National Center for Biological Sciences, Bengaluru, India.

Programmer

July'12-Aug'13 Yahoo!, Bengaluru, India.

Software Engineer

Jun-July'10 Siemens Limited, New Delhi, India.

Intern

Teaching Experience

Fall'18 Intensive Principles of Programming Languages, CS7400.

Ph.D. Teaching Assistant at Northeastern University

Fall'17 Parallel Data Processing in Map Reduce, CS6240.

M.S. Teaching Assistant at Northeastern University

Spring'17 Introduction to Data Management and Processing, DS5110.

M.S. Teaching Assistant at Northeastern University

Summer'16 Algorithms and Data, CS4800.

B.S. Teaching Assistant at Northeastern University

Publications

OOPSLA'20 Designing Types for R, Empirically.

Virtual Alexi Turcotte • Aviral Goel • Filip Křikava • Jan Vitek

10.5281/zenodo.4037278



OOPSLA'19 On The Design, Implementation, and Use of Laziness in R.

Athens • Greece Aviral Goel • Jan Vitek

10.1145/3360579

10.5281/zenodo.3369573



POPL'18 Correctness of Speculative Optimizations with Dynamic Deoptimization.

California • USA Olivier Flückiger • Gabriel Scherer • Ming-Ho Yee • Aviral Goel • Amal Ahmed • Jan Vitek

40 10.1145/3158137

IGI Global De-Noising, Clustering, Classification, and Representation of Microarray

ISBN: 146664558X **Data for Disease Diagnostics**, Research Developments in Computer Vision and Image Processing: Methodologies and Applications.

Nitin Baharadwaj • Sheena Wadhwa • Pragya Goel • Isha Sethi • Chanpreet Singh Arora Aviral Goel • Sonika Bhatnagar • Harish Parthasarathy

4 10.4018/978-1-4666-4558-5.ch009

Conference Talks

PL DAY'19 On The Design, Implementation, and Use of Laziness in R.

IBM • NY • USA

OOPSLA'19 On The Design, Implementation, and Use of Laziness in R.

Athens • Greece https://youtu.be/qLxz9HPP6wl

META'19 Meta-Programming in Data Science

Keynote.

Athens • Greece

RIOT'19 RDT: A Dynamic Tracing Framework for R.

Toulouse • France

Invited Talks

2020 On The Design, Implementation, and Use of Laziness in R.

Harvard University, USA
Cornell University, USA
University of California San Diego, USA
Princeton University, USA
University of California Riverside, USA
Purdue University, USA
University of California Riverside, USA
National University of Singapore, Singapore
University of Washington, USA
University of Colorado Boulder, USA

Northwestern University, USA University of Maryland, USA University of Maryland, USA

orthwestern University, USA University of Maryland, USA

University of Utah, USA

Rutgers University, USA

University of Wisconsin-Madison, USA

University of Pennsylvania, USA

Service

University of Kent, UK

REBASE'20 Organizer.

OOPSLA'20 Artifact Evaluation Committee + Session Chair.

REBASE'19 Session Chair.

SPLASH'19 Web Chair.

SPLASH'18 Web Chair.

——— Awards

OOPSLA'20 Distinguished Artifact Reviewer.

Languages

Hindi Native/Bilingual Proficiency English Full Professional Proficiency