Niki Vazou

niki.vazou@imdea.org | nikivazou.github.io | scholar.google | github.com/nikivazou

POSITIONS

Research Associate Professor	2022 – present
IMDEA Software Institute, Madrid, Spain.	
Research Assistant Professor	2018 – 2022
IMDEA Software Institute, Madrid, Spain.	
Postdoctoral Fellow	2017 - 2018
Computer Science Department, University of Maryland, College Park, USA.	

EDUCATION

Phd	2011-2017
Computer Science and Engineering, University of California, San Diego, USA.	
Supervisor: Ranjit Jhala; Thesis title: "Liquid Haskell: Haskell as a Theorem Prover".	
Diploma	2005-2010
National Technical University of Athens, Athens, Greece.	
Supervisor: Nikolaos Papaspyrou; Thesis title: "Memory Safety with Linear Capabilities".	

(CO-)SUPERVISION OF GRADUATE STUDENTS & INTERNS

IMDEA Software Institute, Madrid, Spain.   Present
- PhD candidate Antonio Zegarelli on "Dynamic Policies".
- PhD candidate Colin Rothgang on "Refinement to Dependent Types".

Past
- Master Thesis, Fernanda Andrade on "Detecting Noninterference Violations with Property-based Testing".
- Master Thesis, Mustafa Hafidi on "From testing to formal verification in Haskell".
- Research intern Zack Grannan on "Rewriting for Liquid Haskell". *Published at ECOOP'23.*
- PhD candidate Milod Kazerounian on "Refinement types for Ruby". *Published at VMCAI'18 and PLDI'19.*
- PhD candidate James Parker on "Verification of secure web applications". *Published at POPL'19 and OOPSLA'20.*

National Technical University of Athens, Athens, Greece.   2018
- Diploma student George Petrou on "Verification with Liquid Haskell".

TEACHING ACTIVITIES

Informatics Department, Universidad Complutense de Madrid, Madrid, Spain.	Spring 2024
Co-Lecturer at the Master Class Computer Aided Verification.	
Informatics Department, Universidad Politecnica de Madrid, Madrid, Spain.	Fall 2019
2 months/20 hours seminar on Advanced Functional Programming.	
Computer Science Department, University of Maryland, College Park, USA.	Winter 2018
Lecturer at Advanced Functional Programming (CMSC498V).	
Computer Science Department, University of Maryland, College Park, USA.	Fall 2017
Co-Lecturer at Introduction to Programming (CMSC330).	
Clubes De Ciencia, Guanajuato, Mexico.	Summer 2015
1 week/40 hours course on Functional Programming.	

REVIEWING ACTIVITIES

ESOP'25, PLDI'24, TyDe'24 ICFP'23, PLDI'23, ESOP'23, HaskellX'22, POPL'22, WITS'22, TYPES'22, OOPSLA'22, FLOPS'22, PLS'21, PEPM'21, VMCAI'21, WGT'20, CAV'20, FCS'20, POPL'19, ESOP'18, ICFP'18, PEPM'21, PLS'21, TFP'20, Haskell'18, ML-Family Workshop'17, HOPE'17, PADL'17, Scala'17, Haskell'16, HiW'16, TFP'16, PADL'16, Scala'16, AEC@POPL'16, AEC@PLDI'16.

Selected Invited Talks

Keynote Speaker at ICFP	2024
Invited Speaker at LambdaWorld	2024
Invited at PLMW at POPL	2024
Keynote at LFMTP: Logical Frameworks and Meta-Languages: Theory and Practice	2023
Presenter at SCOT Seminar	2022
Keynote at CLAS: Computational Logic Autumn Summit	2022

Organization of Scientific Events

Co-Chair, Sponsoring PLDI.	2024
Co-Chair, Haskell Symposium.	2024
Co-Chair, Haskell Symposium.	2023
Co-Chair, Artifact Evaluation, PLDI.	2022
Co-Chair, Artifact Evaluation, PLDI.	2021
Virtualization Committee, ICFP.	2020
Co-Chair, Student Research Competition, POPL.	2020
Chair, Student Research Competition, POPL.	2019
Chair, Haskell Implementors' Workshop.	2019
Co-Chair, Programming Languages and Analysis for Security.	2019
Co-Organizer, Programming Languages Mentoring Workshop, ICFP.	2018
Co-Chair, Workshop on Type-Driven Development.	2018

Membership of Scientific Societies

Member of SIGPLAN Executive Committee.	2024 - present
Member of IFIP Working Group 2.1 on Algorithmic Languages and Calculi.	2024 - present
Member of IFIP Working Group 2.8 on Functional Programming.	2024 - present
Member of The ACM SIGPLAN Haskell Symposium Steering Committee.	2023 - present
Member of the Dahl-Nygaard Prize Committee.	2023
Board Member of Haskell Foundation.	2021 - 2022
Member of Haskell.org Committee.	2016 - 2020
Event Coordinator at Graduate Women in Computing, UCSD.	2015 - 2016

Grants & Awards

ERC Starting Grant	2022 - 2027
Wallenberg Academy Fellowship.	2021
Juan de la Cierva Incorporacion Grant, by Spanish Ministry of Science and Innovation.	2021 - 2023
Atraccion de Talento Fellowship, by Madrid Regional Government.	2020 - 2024
Best paper award at ACM SIGPLAN Conference OOPSLA.	2018
Victor Balisi Postdoctoral Fellowship, University of Maryland, College Park, USA.	2017 - 2018
Graduate Award for Research, University of California, San Diego, USA.	2015
Microsoft Research Graduate Research Fellowship.	2014 - 2016