

Service Statement

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Throughout my Ph.D. and Post Doc I've greatly benefited from being part of and interacting with both the local communities at UPenn and UMD, as well as the wonderful broader PL community. I believe it is important to give back and I strive to do so at every opportunity, hoping to guide and inspire future researchers just like I was guided and inspired myself.

In my opinion, the most influential experiences provided by the PL community are the amazing mentoring workshops and summer schools. I was fortunate to attend the Oregon Programming Languages Summer School (OPLSS) in the summer of my first Ph.D. year, and the Programming Language Mentoring Workshop (PLMW) in the following January. Both programs exposed me to diverse research opportunities in programming languages, and let me form social relationships with other early-year researchers; relationships that still hold strong more than half a decade later. In turn, I jumped at the opportunity to participate as a panelist in PLMW: in ICFP 2018, I was part of the panel on “Research in Functional Programming”, while in OOPSLA 2019 I was part of the panel on “PhD Life”. Similarly, I co-developed and taught a series of lectures in the DeepSpec Summer School (in both 2017 and 2018), on “Random Testing in the Coq Proof Assistant”. This summer school module formed the core of volume 4 in the popular “Software Foundations” series of online textbooks, called “QuickChick: Property-Based Testing in Coq”, which is freely available online. The main focus of the module and the book is QuickChick, a random testing tool for the Coq proof assistant which I developed during my Ph.D. and is also freely available online, actively being used and helping PL researchers debug their specifications (for example, at UPenn, UMD, Princeton, MIT, Inria, and IMDEA among others).

Another, equally important aspect of service to the broader PL community is reviewing and helping organize conferences. I am grateful for many the thoughtful reviews I have gotten over the years, and strive to put the same amount of effort into mine. As such I've reviewed artifacts (PLDI '19) and papers, both as an external expert reviewer (Haskell Symposium 2016, Onward 2018) and as a PC member (PLAS '19, FLOPS '20). I'm also currently a co-chair of the ICFP workshop in 2020 and 2021, helping to organize and coordinate the workshops co-located with the main conference.

Finally, on an institution scale, I was lucky enough to be part of vibrant PL groups at both Penn (PL Club) and UMD (PLUM), with regular weekly lunch meetings. I've given several talks at both, invited and hosted external researchers to do the same (Zoe Paraskevopoulou and Niki Vazou at Penn, and Anders Miltner at UMD in the near future), and organized the PLUM iteration this past summer.