Puming Fang

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EDUCATION

UMass Amherst, *Amherst, USA* 9/2017 – Present
- Ph.D. of Electrical and Computer Engineering
- Advisor: Prof. Tilman Wolf

Technical University of Munich, *Munich, Germany* 10/2014 – 08/2017
- Master of Electrical and Computer Engineering
- Advisor: Prof. Thomas Eibert

Xidian University, Xi'an, China 08/2010 – 07/2014
- Bachelor of Electrical and Computer Engineering

PUBLICATION

- Enabling Virtual Network Functions in Named Data Networking, Puming Fang, Tilman Wolf. IEEE INFOCOM WKSHPS: GI 2021.
- Radiation Pattern Reconfigurable Antenna for MIMO Systems with Antenna Tuning Switches, P. Fang, K. Wang, M. Wolfmüller, T. Eibert. IEEE AP-S/URSI, 2018.

RESEARCH EXPERIENCE

Research Assistant, UMass Amherst, *Amherst* 01/2021 – Present
Project: A Deep Learning-Based Framework for Content Caching
Advisor: Prof. Tilman Wolf
- Proposed a novel framework based on deep recurrent neural network models for content caching
- Implemented a simulator and prototype within Apache Traffic Server

Research Assistant, UMass Amherst, *Amherst* 03/2020 – 12/2020
Project: Enabling Virtual Network Functions in Named Data Network (NDN)
Advisor: Prof. Tilman Wolf
- Proposed an approach that uses modifications to names in data requests to invoke network functions in NDN
- Introduced three different approaches on how to invoke network functions in NDN, which include explicit invocation by the end-system and transparent invocation by intermediate nodes.
- Performed evaluation results that show the performance of proposed approaches

TEACHING EXPERIENCE

Teaching Assistant, UMass Amherst, *Amherst* 01/2020 – Present
- ECE 697 – Machine Learning (2021 Spring)
- ECE 671 - Computer Networks (2020 Fall)

Teaching Assistant, Technical University of Munich, *Munich* 10/2014 – 01/2015
- Neural Networks (2014 Fall)

SKILLS

- **Programming**: Expert in Python; Skillful with Java and C++.
- **Language**: Native in Mandarin; Fluent in English; Conversational in German.