

# PHUONG THANH NGUYEN<sup>1</sup>

## PERSONAL INFORMATION

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NAME: Phuong Thanh NGUYEN  
POSITION: Tenure-track Assistant Professor (RTD/b), University of L'Aquila (Italy)  
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## EDUCATION

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12/2009 – 09/2012	DOCTORATE DEGREE, Dr.-Ing. Friedrich-Schiller-Universität Jena (Germany)
09/2002 – 02/2005	MASTER OF INFORMATION TECHNOLOGY Hanoi University of Science and Technology (Vietnam)
09/1997 – 05/2002	DIPLOMA IN INFORMATION TECHNOLOGY Hanoi University of Science and Technology (Vietnam)

## HABILITATION

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I got the Italian habilitation (ASN 2021) as Associate Professor for the following two sectors:

- Computer Science (01/B1: Informatica, II fascia).<sup>2</sup>
- Computer Engineering (09/H1: Sistemi di Elaborazione delle Informazioni, II fascia).<sup>3</sup>

## EDITORIAL ACTIVITIES

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- Associate Editor of Applied Intelligence (<https://www.springer.com/journal/10489/editors>).
- Member of the Editorial Board of the Software Quality Journal (<https://www.springer.com/journal/11219/editors>).
- Member of the Editorial Board of the Journal of Universal Computer Science (<https://bit.ly/3RFhtvB>).
- Member of the Editorial Board of Computers & Education: Artificial Intelligence (<https://bit.ly/3fMckVi>).

## AWARDS

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- “**2022 SoSyM First Paper Award**”: Juri Di Rocco, Davide Di Ruscio, Claudio Di Sipio, Phuong T. Nguyen, Alfonso Pierantonio, “*MemoRec: A Recommender System for Assisting Modelers in Specifying Metamodels*,” Software and Systems Modeling, DOI: [10.1007/s10270-022-00994-2](https://doi.org/10.1007/s10270-022-00994-2).
- “**Best Foundation Paper Award**”: Juri Di Rocco, Claudio Di Sipio, Davide Di Ruscio, Phuong T. Nguyen, “*A GNN-based Recommender System to Assist the Specification of Metamodels and Models*,” DOI: [10.1109/MODELS50736.2021.00016](https://doi.org/10.1109/MODELS50736.2021.00016).
- “**Best Paper Award Winners for 2020**”: Phuong T. Nguyen, Juri Di Rocco, Davide Di Ruscio, Massimiliano Di Penta “*CrossRec: Supporting Software Developers by Recommending Third-party Libraries*,” Journal of Systems and Software, DOI: [10.1016/j.jss.2019.110460](https://doi.org/10.1016/j.jss.2019.110460).
- “**Diamond Best Paper Award**”: Phuong T. Nguyen, Juri Di Rocco, Davide Di Ruscio, Massimiliano Di Penta “*CrossRec: Supporting Software Developers by Recommend-*

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<sup>1</sup>Website: <https://www.disim.univaq.it/ThanhPhuong>.

<sup>2</sup>Settore Concorsuale 01/B1 - II Fascia - Quinto Quadrimestre: <https://bit.ly/45fVov8>

<sup>3</sup>Settore Concorsuale 09/H1 - II Fascia - Quinto Quadrimestre: <https://bit.ly/47DMZ6g>

ing *Third-party Libraries*,” Journal of Systems and Software, DOI: [10.1016/j.jss.2019.110460](https://doi.org/10.1016/j.jss.2019.110460), (<https://bit.ly/3bZi5cx>).

- **“Best Paper Award”**: Phuong T. Nguyen, Juri Di Rocco, Davide Di Ruscio, Alfonso Pierantonio, Ludovico Iovino, “*Automated Classification of Metamodel Repositories: A Machine Learning Approach*,” DOI: [10.1109/MODELS.2019.00011](https://doi.org/10.1109/MODELS.2019.00011).
- **“Distinguished paper”**: Phuong T. Nguyen, Juri Di Rocco, Riccardo Rubei, Davide Di Ruscio, “*CrossSim: exploiting mutual relationships to detect similar OSS projects*,” DOI: [10.1109/SEAA.2018.00069](https://doi.org/10.1109/SEAA.2018.00069), (<https://bit.ly/3hrPMr1>).
- **“Best Paper Award”**: Phuong T. Nguyen, Hong Anh Le, Thomas Zinner “*A Context-Aware Traffic Engineering Model for Software-Defined Networks*,” DOI: [10.1007/978-3-319-15392-6\\_8](https://doi.org/10.1007/978-3-319-15392-6_8).

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## 10 MOST IMPORTANT PUBLICATIONS

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- [1] Phuong T. Nguyen, Claudio Di Sipio, Juri Di Rocco, Riccardo Rubei, Davide Di Ruscio, Massimiliano Di Penta “*Fitting Missing API Puzzles with Machine Translation Techniques*,” Elsevier Expert Systems with Applications, DOI: [10.1016/j.eswa.2022.119477](https://doi.org/10.1016/j.eswa.2022.119477).
- [2] Phuong T. Nguyen, Juri Di Rocco, Riccardo Rubei, Claudio Di Sipio, Davide Di Ruscio, “*DeepLib: Machine Translation Techniques to Recommend Upgrades for Third-party Libraries*,” Elsevier Expert Systems with Applications, DOI: [10.1016/j.eswa.2022.117267](https://doi.org/10.1016/j.eswa.2022.117267).
- [3] Phuong T. Nguyen, Juri Di Rocco, Claudio Di Sipio, Davide Di Ruscio, Massimiliano Di Penta “*Recommending API Function Calls and Code Snippets to Support Software Development*,” IEEE Transactions on Software Engineering, DOI: [10.1109/TSE.2021.3059907](https://doi.org/10.1109/TSE.2021.3059907).
- [4] Phuong T. Nguyen, Davide Di Ruscio, Alfonso Pierantonio, Juri Di Rocco, Ludovico Iovino, “*Convolutional neural networks for enhanced classification mechanisms of meta-models*,” Elsevier Journal of Systems and Software, DOI: [10.1016/j.jss.2020.110860](https://doi.org/10.1016/j.jss.2020.110860).
- [5] Phuong T. Nguyen, Juri Di Rocco, Davide Di Ruscio, Massimiliano Di Penta, “*Cross-Rec: Supporting Software Developers by Recommending Third-party Libraries*,” Elsevier Journal of Systems and Software, DOI: [10.1016/j.jss.2019.110460](https://doi.org/10.1016/j.jss.2019.110460).
- [6] Phuong T. Nguyen, Juri Di Rocco, Riccardo Rubei, Davide Di Ruscio, “*An Automated Approach to Assess the Similarity of GitHub Repositories*,” Springer Software Quality Journal, DOI: [10.1007/s11219-019-09483-0](https://doi.org/10.1007/s11219-019-09483-0).
- [7] Phuong T. Nguyen, Riccardo Rubei, Juri Di Rocco, Claudio Di Sipio, Davide Di Ruscio, Massimiliano Di Penta, “*Dealing with Popularity Bias in Recommender Systems for Third-party Libraries: How far Are We?*,” in Proceedings of MSR 2023, DOI: [10.1109/MSR59073.2023.00016](https://doi.org/10.1109/MSR59073.2023.00016).
- [8] Phuong T. Nguyen, Juri Di Rocco, Claudio Di Sipio, Davide Di Ruscio, Massimiliano Di Penta, “*Adversarial Attacks to API Recommender Systems: Time to Wake Up and Smell the Coffee?*,” in Proceedings of ASE 2021, DOI: [10.1109/ASE51524.2021.9678946](https://doi.org/10.1109/ASE51524.2021.9678946).
- [9] Phuong T. Nguyen, Juri Di Rocco, Claudio Di Sipio, Davide Di Ruscio, Massimiliano Di Penta, “*Adversarial Machine Learning: On the Resilience of Third-party Library Recommender Systems*,” in Proceedings of EASE 2021, DOI: [10.1145/3463274.3463809](https://doi.org/10.1145/3463274.3463809).
- [10] Phuong T. Nguyen, Juri Di Rocco, Davide Di Ruscio, Lina Ochoa, Thomas Degueule, Massimiliano Di Penta, “*FOCUS: A Recommender System for Mining API Function Calls and Usage Patterns*,” in Proceedings of ICSE 2019, DOI: [10.1109/ICSE.2019.00109](https://doi.org/10.1109/ICSE.2019.00109).

*L’Aquila, January 31<sup>st</sup> 2024*

**Phuong T. Nguyen**