

# BUI PHI DIEP

Ph.D Student, Uppsala University

## BASIC INFORMATION

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*Full name* : Bui Phi Diep  
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*Website* : [diepbp.github.io](https://diepbp.github.io)

## RESEARCH INTEREST

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- Automated Program Verification
- Constraint Solving
- Program Analysis
- Security and Privacy

## PUBLICATIONS

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- **Flatten and Conquer: A Framework for Efficient Analysis of String Constraints** - Parosh Aziz Abdulla, Mohamed Faouzi Atig, Yu-Fang Chen, Bui Phi Diep, Lukáš Holík, Ahmed Rezzine and Philipp Rümmer. PLDI 2017.
- **Counter-Example Guided Program Verification** - Parosh Aziz Abdulla, Mohamed Faouzi Atig, and Bui Phi Diep. FM 2016.

## EDUCATION

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- **Uppsala University, Sweden** *2015 - present*  
Ph.D in Computer Science
- **University of Engineering and Technology, VNU Hanoi** *2007 - 2014*  
B.Sc and M.Sc in Computer Science

## RESEARCH EXPERIENCE / TOOLS

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- **Efficient Solver for String Equations** *2016 - present*  
Developing an open-source string solver **Trau**, targeting to grammar and transducer constraints. Trau uses Microsoft SMT Z3 solver as the external solver.
- **Verification of Concurrent Programs** *2015 - present*  
Developing a model checker **CEGPV** to verify concurrent C/C++ programs.

## WORKING EXPERIENCE

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- **Department of Information Technology, Uppsala University, Sweden** *2015 - present*  
*Teaching Assistant*
- **National Institute of Informatics (NII), Tokyo, Japan** *March 2013 - August 2013*  
*Intern Student*

## PROGRAMMING LANGUAGES

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C/C++/C# (expert), Java (proficient), Python (prior experience)

## REFERENCES

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- **Assoc. Prof. Mohamed Faouzi Atig**  
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