

# Vojislav Dukic

*PhD candidate*

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<https://vojislav.net>



*I'm interested in distributed and networked systems*

## Education

- 2016–present **PhD**, *ETH*, Zurich, Switzerland.  
Distributed systems and networking; Advisor: Ankit Singla
- 2014–2015 **Master**, *FTN*, Novi Sad, Serbia, *avg. grade 10.00 out of 10*.  
Applied computer science, Information systems
- 2010–2014 **Bachelor**, *FTN*, Novi Sad, Serbia, *avg. grade 10.00 out of 10*.  
Computing and control engineering, Applied computer science

## Publications

- SoCC '20 **Photons: Lambdas on a diet**  
Vojislav Dukic, Rodrigo Bruno, Ankit Singla, Gustavo Alonso
- SIGCOMM '20 **Beyond the Mega-Data Center: Networking Multi-Data Center Regions**  
Vojislav Dukic, Ginni Khanna, Christos Gkantsidis, Thomas Karagiannis, Francesca Parmigiani, Ankit Singla, Mark Filer, Jeffrey L. Cox, Anna Ptasznik, Nick Harland, Winston Saunders, Christian Belady
- HotCloud '19 **Happiness index: Right-sizing the cloud's tenant-provider interface**  
Vojislav Dukic, Ankit Singla
- NSDI '19 **Is advance knowledge of flow sizes a plausible assumption?**  
Vojislav Dukic, Sangeetha Abdu Jyothi, Bojan Karlas, Muhsen Owaida, Ce Zhang, Ankit Singla
- SoCC '18 **Network Scheduling in the Dark**  
(Poster) Vojislav Dukic, Sangeetha Abdu Jyothi, Bojan Karlas, Muhsen Owaida, Ce Zhang, Ankit Singla
- PROFES '15 **Information System Software Development with Support for Application Traceability**  
(master thesis) Vojislav Dukic, Ivan Lukovic, Matej Crepinsek, Tomaz Kosar, Marjan Mernik

## Experience

- 2019 **PhD research intern**, *Microsoft Research*, Cambridge, UK.  
Designing a novel optical-circuit-switched network architecture for data center interconnect.  
<https://www.microsoft.com/en-us/research/lab/microsoft-research-cambridge/>

- 2016-present **PhD candidate**, *ETH*, Zurich, Switzerland.  
 Research in the domain of distributed and networked systems.  
<https://systems.ethz.ch/>
- 2015 **Data science intern**, *EPFL*, Lausanne, Switzerland.  
 Leveraging machine learning for discovery and construction of new 2D materials.  
<http://theosrv1.epfl.ch/>
- 2014-2016 **Research and teaching assistant**, *FTN*, Novi Sad, Serbia.  
 Research and teaching in the domain of information systems and domain-specific languages.  
<http://www.ftn.uns.ac.rs/>
- 2016 **System designer**, *Ava soft*, Novi Sad, Serbia.  
 Full system design of a real-time safety platform.  
<https://ava.info/>
- 2014 - 2016 **Co-founder**, *Challenger0*, Novi Sad, Serbia.  
 Design and implementation of a web entertainment platform.  
*unsuccessful startup*
- 2015 **ERP designer**, *DOOB Innovation Studio*, Novi Sad, Serbia.  
 Design and implementation of an ERP solution.  
<http://www.doobinnovation.com/>
- 2014 **Intern**, *Huawei*, Beijing-Shenzhen, China.  
 Familiarize with Huawei's software backend solutions for mobile carriers.  
<http://www.huawei.com/>
- 2014 **Big data intern**, *Levi9*, Novi Sad, Serbia.  
 Design and development of a system that identifies influencers on social media.  
<https://www.levi9.com/>
- 2014 **ERP designer**, *Rajak*, Novi Sad, Serbia.  
 Design and implementation of a web based information system.  
<http://www.rajak.rs/>
- 2012 **Compiler developer**, *RT-RK Institute for Computer Base Systems*, Novi Sad, Serbia.  
 Implementation of architecture-dependent optimizations in a C compiler for the Coyote DSP architecture.  
<http://www.rt-rk.com/>

## Teaching

- ETH Zurich master: Advanced computer networks, Future Internet  
 bachelor: Linear algebra, Computer networks
- FTN master: Software-aided business process modeling
- Novi Sad bachelor: Object oriented programming, Compilers, Programming languages and data structures, Computer architecture, Databases

## Languages

- Englisch Fluency in reading and writing
- German Basic communication - "*Göthe Institut*" B2 Prüfung
- Serbian Native speaker

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## Scholarships and awards

- 2016 **Student of the year**, *FTN*, Novi Sad, Serbia.  
<http://www.ftn.uns.ac.rs/>
- 2014 2015 **Dositeja**, *Ministry of youth and sports*, Belgrade, Serbia.  
A scholarship for the best students of Serbia.  
<http://www.mos.gov.rs/dositeja/>
- 2011 2012 **Faculty Excellence Award**, *FTN*, Novi Sad, Serbia.  
2013 2014 <http://www.ftn.uns.ac.rs/>
- 2011 2012 **University Excellence Award**, *University of Novi Sad*, Novi Sad, Serbia.  
2013 2014 <http://www.uns.ac.rs/>
- 2014 **Hemofarm Foundation Scholarship**, *Hemofarm Foundation*, Vrsac, Serbia.  
<http://www.uns.ac.rs/>
- 2013 **University Scholarship**, *University of Novi Sad*, Novi Sad, Serbia.  
<http://www.uns.ac.rs/>
- 2006-2015 **Privrednik Scholarship**, *Privrednik*, Novi Sad, Serbia.  
<http://www.fondprivrednik.org.rs/>