

# Sergey Legtchenko

*Ph.D. student*

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## Education

- 2009 **Ph.D.**, *UPMC-LIP6*, Paris, *In Progress*.  
Application-malleable peer-to-peer overlays
- 2007–2009 **Master Degree**, *Université Pierre et Marie Curie*, Paris, *Grade A+*.  
Distributed Systems
- 2006–2007 **Bachelor's Degree**, *Université Joseph Fourier*, Grenoble, *Grade A+*.  
Computer Science
- 2004–2006 **DEUG: Diploma for completion of first two years of bachelor's degree**, *Université d'Orléans*, Orléans, *Grade A+*.  
Mathematics and Computer Science

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## Master thesis

- title Consideration of data mobility in peer-to-peer systems
- supervisors Sebastien Monnet
- description Design of a node-prefetching algorithm in a peer-to-peer overlay (Solipsis) in order to increase its resilience to data mobility

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## Experience

### Vocational

- 2011 **Internship**, *Microsoft Research*, Cambridge, UK.
- 2009 **Internship**, *LIP6*, Paris.  
Consideration of data mobility in peer-to-peer systems
- 2008 **Internship**, *LIP6*, Paris.  
Churn-resilient replication strategies in distributed hash tables
- 2007 **Teacher**, *Completure*, Orléans.  
Private Lessons for beginners in Visual Basic

### Miscellaneous

- 2007–2008 **Teacher**, *Completure*, Orléans.  
Private Lessons for High School level in Mathematics

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## Languages

English **Fluent**

French **Bilingual**  
Russian **Native tongue**

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## Computer skills

Research P2P overlay design, distributed algorithms, fault resilience, dependability.  
Programming Java, C#, and C  
Parallel Computing Programming on IBM Cell, use of MPI and OpenMP  
Middlewares Experience of RMI, JavaBeans  
Operating Systems Administration and use of Linux, Windows  
Network Simulators Peersim

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## Interests

Operating Systems Architecture, Administration  
Sport Badminton, swimming  
Reading Science Fiction  
History Middle Ages and 20th century

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## Extra

- Nationality: French, Russian
- Birthdate: May 15, 1986
- Marital Status: Single
- Other: Driving licence

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## Publications

Sergey Legtchenko, Sebastien Monnet, and Pierre Sens. Donut: Building shortcuts in large-scale decentralized systems with heterogeneous peer distributions. In *30th Symposium on Reliable Distributed Systems (SRDS 2011)*, Madrid, Spain, October 2011. IEEE Computer Society.

Sergey Legtchenko, Sébastien Monnet, Pierre Sens, and Gilles Muller. Churn-resilient replication strategy for peer-to-peer distributed hash-tables. In *The 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2009)*, volume 5873 of *Lecture Notes in Computer Science*, pages 485–499, Lyon, Fr, November 2009. Springer Verlag.

Sergey Legtchenko, Sebastien Monnet, Pierre Sens, and Gilles Muller. RelaxDHT: a churn-resilient replication strategy for peer-to-peer distributed hash-tables. *TAAS*, 2010.

Sergey Legtchenko, Sébastien Monnet, and Gael Thomas. Blue Banana: resilience to avatar mobility in distributed MMOGs. In *The 40th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2010)*, Chicago, USA, July 2010.