

# Enrique Larios Vargas

POSTDOCTORAL RESEARCHER · LECTURER · SOFTWARE ENGINEER

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## Summary

Current postdoctoral researcher at Software Improvement Group (SIG)/TU Delft, almost at the end of my contract and willing to embrace a new challenge. 2+ years of experience specializing in empirical software engineering, behavioral science in software engineering and software analytics. Passionate about teaching and research, who loves improving software engineering practices by applying scientific methods. I am interested in devising innovative ways through the lens of human behavioural science for solving recurrent challenges in software development.

## Research Interests

Software Engineering, Empirical Software Engineering, Evidence-based Software Engineering, Human aspects of Software Engineering, Software Analytics, and Mining Software Repositories.

## Education

### Leiden University (Leiden Institute of Advanced Computer Science)

*Leiden, The Netherlands*

PH.D. IN COMPUTER SCIENCE

*Sep. 2010 - Nov. 2015*

- Got a Erasmus-BAPE Scholarship which is given to promising academics in Computer Science in Latin America (Bolivia-Argentina-Peru).

### Universidad Nacional Mayor de San Marcos

*Lima, Peru*

MSC. IN SYSTEMS ENGINEERING AND COMPUTING

*Mar. 2005 - Dec. 2007*

- Granted with a CONCYTEC scholarship which is given to outstanding professionals in Computer Science and Software Engineering.

### Pontificia Universidad Catolica del Peru

*Lima, Peru*

B. S. IN INFORMATIC ENGINEERING

*Aug. 1994 - Dec. 2000*

## Work Experience

### Software Improvement Group (SIG)

*Amsterdam, The Netherlands*

POSTDOCTORAL RESEARCHER

*Jun. 2017 - to date*

- Lead researcher in the CodeFeedr project, coordinating the efforts to make software analytics a core feedback loop for software engineering projects.
- Conducted a cross-sectional interview study to understand how software practitioners make choices regarding software libraries.
- Designed and launched an online survey to explore and understand software practitioners' perceptions concerning the selection of third-party libraries.
- Designed and implemented a platform to live monitor (near real-time) the popularity of software libraries on GitHub.

### Leiden Institute of Advanced Computer Science (LIACS)

*Leiden, The Netherlands*

RESEARCH ASSOCIATE

*Jan. 2016 - Jun. 2017*

- Researcher in the Grip op Software (GROS) project. Leading the development of the software infrastructure to enhance the software quality pipeline applying Data Science techniques.
- Collected requirements from multiple stakeholders to design and develop a data management platform.

### Leiden Institute of Advanced Computer Science (LIACS)

*Leiden, The Netherlands*

LECTURER

*Aug. 2014 - Jun. 2017*

- Lecturer in Seminarium en Onderzoek, Bachelor in Informatica, Spring 2017.
- Lecturer in Web Technology, Master in Media Technology, Spring 2017.
- Lecturer in Software Engineering, Master ICT in Business, Leiden University, Fall 2016.
- Lecturer in Software Engineering, Bachelor in Informatica, Fall 2015.
- Lecturer in Software Engineering, Master ICT in Business, Leiden University, Fall 2015.
- Lecturer in Software Engineering, Master ICT in Business, Leiden University, Fall 2014.

- Teaching Assistant in Software Engineering, Lecturer: Dr. Tim Cocx, Fall 2013.
- Teaching assistant in Human Computer Interaction, Professor: Dr. Fons Verbeek, Fall 2013.
- Teaching assistant in Requirements Engineering, Professor: Dr. Fons Verbeek, Spring 2012.

**Pontificia Universidad Catolica del Peru***Lima, Peru*

Aug. 2005 - Aug. 2010

- Lecturer in Software for Telecommunications 1 (Object oriented programming, Database Systems).
- Lecturer in Software for Telecommunications 2 (Networking and Web technologies).
- Bachelor thesis supervisor.
- Undergraduate counselor.

**Data Voice S.A.C.***Lima, Peru*

Jan. 2001 - Aug. 2006

- Development of solutions integrating Telecommunication systems and Information systems.
- Lead engineer in the deployment of Contact Center solutions in Telecom providers in Latin America.

## Honors & Awards

**INTERNATIONAL**2010 **Awarded**, BAPE Scholarship for pursuing a PhD in Computer Science in The Netherlands*Erasmus Project,  
European Union***DOMESTIC**2005 **Awarded**, CONCYTEC scholarship for pursuing the MSc. in Systems Engineering and Computing*Lima, Peru*

## Publications

**• Software Engineering •****Selecting third-party libraries: The practitioners' perspective.***ESEC/FSE, USA*

E. LARIOS VARGAS, M. ANICHE, C. TREUDE, M. BRUNTINK AND G. GOUSIOS

2020

- Accepted at ESEC/FSE 2020, 28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering.
- <https://arxiv.org/abs/2005.12574>

**Enabling Real-Time Feedback in Software Engineering.***ICSE-NIER, Sweden*

E. LARIOS VARGAS, J. HEJDERUP, M. KECHAGIA, M. BRUNTINK AND G. GOUSIOS

2018

- Accepted at ICSE-NIER 2018, 40th International Conference on Software Engineering: New Ideas and Emerging Results Track.
- [https://pure.tudelft.nl/portal/files/38777497/ICSE\\_NIER\\_50.pdf](https://pure.tudelft.nl/portal/files/38777497/ICSE_NIER_50.pdf)

**Quality assessment of uml class diagrams: A study comparing experts and students.***MoDELS, Canada*

B. KARASNEH, D. STIKKOLORUM, E. LARIOS VARGAS AND M. R. V. CHAUDRON

2015

- Accepted at Models 2015, ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems.

**• Bioinformatics •****A semantic-based metadata validation for an automated High-Throughput Screening workflow: Case study in CytomicsDB.***IWBBIO, Spain*

E. LARIOS VARGAS, Z. XIA, J. SLOB AND F. J. VERBEEK

2016

- Accepted at IWBBIO 2016, 4th International Work-Conference on Bioinformatics and Biomedical Engineering.

**CytomicsDB: A Metadata-Based Storage and Retrieval Approach for High-Throughput Screening Experiments.***PRIB, Sweden*

E. LARIOS VARGAS, Y. ZHANG, L. CAO AND F. J. VERBEEK

2014

- Accepted at PRIB 2014, Pattern Recognition in Bioinformatics: 9th IAPR International Conference.

**Automation in Cytomics: A Modern RDBMS Based Platform for Image Analysis and Management in High-Throughput Screening Experiments.***HIS, China*

E. LARIOS VARGAS, Y. ZHANG, K. YAN, Z. DI, S. LEDEVEDEC, F. GROFFEN AND F. J. VERBEEK

2012

- Accepted at HIS 2012, 1st. International Conference on Health Information Science.

# Training

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## Lorentz center - Leiden University

INTERNATIONAL SOFTWARE ARCHITECTURE PH.D. SCHOOL

*Leiden, The Netherlands*

*June 2019*

## Universitat Rovira i Virgili

3RD INTERNATIONAL WINTER SCHOOL ON BIG DATA

*Bari, Italy*

*Feb 2017*

## Open Edge Technologies Institute

SCRUM MASTER CERTIFICATION

*Lima, Peru*

*June 2010*

# Skills

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## Informatics

TECHNICAL SKILLS

- (+8 years) SQL and Database management systems such as PostgreSQL, Oracle, MySQL, and MS SQL Server.
- (+7 years) Java and C++.
- (+5 years) Networking.
- (+2 year) Apache Kafka, Apache Flink and Scala.
- (1 year) Python and R.

## Languages

- (Mother-tongue) Spanish.
- (2nd. Language) English.
- (Intermediate level) Dutch.
- (In progress) Portuguese.

# Job References

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## Dr. Ir. Georgios Gousios

SOFTWARE ENGINEERING RESEARCH GROUP - TU DELFT

- Head of the Software Analytics Lab. and PI of the CodeFeedr project
- G.Gousios@tudelft.nl

## Dr. Mauricio Aniche

SOFTWARE ENGINEERING RESEARCH GROUP - TU DELFT

- Co-author in recent publication
- M.FinavaroAniche@tudelft.nl

## Prof. Dr. Ir. Fons J. Verbeek

IMAGING & BIOINFORMATICS - LEIDEN UNIVERSITY

- Head of the Imaging & Bioinformatics Group and Ph.D. supervisor
- f.j.verbeek@liacs.leidenuniv.nl

## Dr. Ir. Magiel Bruntink

SOFTWARE IMPROVEMENT GROUP (SIG)

- Head of the Research Group
- M.Bruntink@sig.eu

## Dr. Maarten Lamers

MEDIA TECHNOLOGY - LEIDEN UNIVERSITY

- Head of the Media Technology Group
- m.h.lamers@liacs.leidenuniv.nl