

Paul Leger, Ph. D. in Computer Science

Associate Professor & Pragmatics Lab founder
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Personal

Name: Paul Leger
Hometown: Coquimbo, Chile
Nationality: Chilean



Education

Visiting Researcher, universities across the world:

- Tokyo Institute of Technology, Japan, 2019 (6 months).
- University of Cauca, Colombia, 2018 (2 months).
- Shibaura Institute of Technology (x 2), Japan, 2013-2014 (4-2 months).
- École des mines de Nantes, France, 2010 (2 months).

Ph. D. in Computer Science, University of Chile, 2006 - 2012.

- Subject: Opening Up Trace-Based Mechanisms.
- Advisor: Éric Tanter (<http://pleiad.cl/etanter>).

Engineering degree in Computer Science, University of La Serena, 1999 - 2005 (July).

B.Sc. in Computing Science, University of La Serena, 1999 - 2005 (April).

Occupations

I have worked on four different aspects of my professional life:

- **As computer science engineer**, I have designed and developed software like programming language interpreters, libraries that use novel paradigms like aspect/context-oriented programming, and agent-based model simulations for social networks. Regarding programming, I have experience in industrial languages like C, Java, JavaScript, Python, functional languages like Scheme/Racket, and aspect languages like AspectJ, AspectScript, and ContextJ.
- **As manager**, I am a co-founder/director of the Pragmatics lab (<http://pragmatics-lab.com>), which focuses on Computer Science research and its applications. Additionally, I was the General Chair and Chair of the International Conference of the Chilean Computer Science Society (2020), the most important academic computer science event in Chile. Finally, I am currently a director at the Chilean Computer Science Society (SCCC).
- **As researcher**, I have published many papers in indexed journals (JCR-WOS/SCOPUS), conferences (SCOPUS), and workshops (SCOPUS). I have traveled to different countries like Germany, France, the USA, Japan, Colombia, and Spain for research activities. More information in the section "Publications".
- **As professor**, I have been a lecturer in courses of different areas like software development and Technology Information related to Business. At least in two opportunities, I have been selected or awarded as a "good" professor.

Engineering Service

Mining Cerro Negro. From Catholic University of the North, Consulting engineer, 2020.

Autopista Central. Consulting engineer, 2017.

Regional Observatory (working market). Software project manager, implementation of an information system that allows users to analyze working market in a region of Chile, 2016 - 2017.

Autopista Central. Consulting engineer, 2011.

Center for Advanced Research in Arid Zones (CEAZA). Research assistant, two tasks: a) using MM5 (mesoscale model) to simulate or predict mesoscale atmospheric circulation and b) applying artificial neural networks to group/classify rainfall scenarios (both tasks applied to a limited-area in Chile), 2002 - 2004.

Viña Ocho Tierras. Project Manager of Web Site, 2002.

Software Development

RAI-JS: A context-oriented programming library for JavaScript, which supports reactive activation interfaces. You can try it on <http://pleger.cl/sites/raijs> and its GitHub on <https://github.com/pleger/rai-js>, 2019.

DeloreanJs: A back-in-time debugger for JavaScript. This software is strongly developed with Felipe Ruiz (felipe.ruiz@alumnos.ucn.cl) and Guillermo Victorero (guillermo.victorero@alumnos.ucn.cl). You can try it on <http://pleger.cl/sites/deloreanjs> and its GitHub on <https://github.com/fruizrob/deloreanjs>, 2019.

SyncCC: A library to address callback issues on JavaScript. You can try it on <http://pleger.cl/synccc> and its GitHub on <https://github.com/pragmaticslaboratory/synccc>, 2019.

ESA-JS: An Expressive Stateful Aspect Language (ESA) for JavaScript. You can try it on <http://pleiad.cl/esa>, 2012.

WeCa: A practical library to address causality issues on the Web. You can try it on <http://pleiad.cl/weca>, 2012.

AspectScript: An aspect language for JavaScript, where pointcuts, join points, and advices are first-class values in the language. You can try it on <http://pleiad.cl/aspectscript>, 2010.

Academic Experience

Academic Services

Director. Chilean Computer Science Society (SCCC), 2020 - present.

Master Program Committee Member (x 2). Committee member of different engineering masters.

Management. Representative, professor committee, and coordinator of undergraduate programs.

Scientific Services

- Funded Projects (x 2).** Principal Investigator (Chile), Co-Researcher (Japanese government).
- Organizer of International Events (x 4).** JCC'20 (Chile), COP'20 (Germany), and MPSE'14/15 (USA).
- Editor and Reviewer of JCR Journals (x 19).** Editor (x 3) and reviewer (x 16).
- Chair of International Events (x 5).** JCC'20 (Chile), MPSE'14/15 (USA), SAC-SE'17 (Morocco), and BIONETICS'15 (USA).
- Program Committee Member (x 12).** SAC-SE (various countries), SBLP (Brazil), VISSOFT (Chile), and INFONOR (Chile).
- Academic Evaluator (x 4).** Research Project (x 2) and External Master Revisor (x 2).
- Invited Speaker at Universities (x 4).** USA, Peru, Colombia, and Chile.

Lecturer

- Postgraduate (x 6).** Areas are Programming Languages, Software Engineering, and Management.
- Undergraduate (x 39).** Areas are Programming Languages, Software Engineering, and Management.
- Thesis Advising (x 25).** Postgraduate (x 3) and Undergraduate (x 22).

For more information about my teaching experience, please visit <http://pleger.cl/teaching>.

Publications

- Indexed Journals.** 20 publications (14 JCR-WoS, 2 SCOPUS, 1 ESCI, and 3 LatIndex).
- Indexed Conferences.** 10 publications (SCOPUS).
- Indexed Workshops.** 6 publications (SCOPUS).

My research profile IDs on:

ORCID: 0000-0003-0969-5139

Web of Science: Q-6174-2017

SCOPUS: 36087550600

For detailed information about my publications, please visit <http://pleger.cl/research>.

Awards & Distinctions

- The best of ourselves,** JCC, article for “the best of ourselves” on Chilean Computer Science Society, Chile, 2019. <http://jcc2019.cl/lo-mejor-de-lo-nuestro-2019>.
- Fundings,** Ph. D. scholarships (x 2) and research stay.
- Best working paper award,** AEMARK, Spain, 2015. <http://www.aemarkcongresos.com/congreso2015/es/premios>.
- Selected as the best professor for undergrad teaching,** Business School, Catholic University of the North, Chile, 2014 and 2017.
- In the press,** on online Chilean press (x 2).