

# Aquiles Carattino

## Curriculum Vitae

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🌐 [uetke.com](http://uetke.com)



## Career Target

Physicist with a strong background in optics and single molecule spectroscopy. With an analytical mind, entrepreneurial attitude and a down to earth personality, I would like to combine the training acquired as Ph.D. in physics with problems arising from different realities. Flexible and eager to learn new skills and tools, looking for a challenging environment with a fast-paced rhythm.

## Experience

2017-Present **Founder**, *Uetke*.

Software development and consulting. Building open source software for controlling setups and managing data. Shortening the time it takes to a group to be ready to acquire data. Providing courses to empower young researchers with the tools needed for successfully gaining control of their setups. More information available at <https://uetke.com> and <https://github.com/uetke>

2012–2017 **PhD in Physics**, LEIDEN UNIV., Prof. Michel Orrit Lab.

Worked in a single-particle/molecule laboratory. The main focus of the research project revolved around luminescence of single gold-nanoparticles. Built a confocal microscope and to develop new techniques to image nanoparticles and to measure temperature with far-field optics.

- Built the software for controlling the setup (Python)
- Supervised two master and one bachelor projects
- Collaborated with two international guests
- Teacher assistant of Atomic and Molecular Physics and of Natuurkunde Onderzoek

2011–2012 **Research Assistant**, TENARIS, Argentina.

Worked in the department of Reheat Furnaces at the R&D division.

- Finite Element Analysis of reheat furnaces (Fortran+Python)
- COMSOL modelling of induction heating
- Experimental validation of the models

2010–2011 **Lecturer**, TRES DE FEBRERO UNIV., Argentina.

Math and Statistics. *MOOC* course with contact sessions.

2010 **Teacher**, PAIDEIA HIGH SCHOOL, Argentina.

Physics teacher; last two years of high school (17-18 years old)

### Miscellaneous

2007–2010 **Assistant**, PHYSICS ASSOCIATION OF ARGENTINA, Argentina.

I was in charge of the creation and maintenance of the website, and of the general administrative requirements.

2008–2010 **Editor**, HIPERTEXTUAL & WEBLOGSSL.

Editor at different blogs including [EternaBuenosAires.com](http://EternaBuenosAires.com) and [xatakaciencia.com](http://xatakaciencia.com)

## Education

2004–2010 **Physics**, *University of Buenos Aires*, Argentina, Final grade: 9.08/10.

Combined bachelor and master studies.

- Undergraduate research lab: Single-molecule anisotropy studies in polymer thin films.

2000-2003 **Liceo Scientifico**, *Scuola Italiana Cristoforo Colombo*, Buenos Aires, Argentina, Final Grade: 100% .

High-school following the Italian program. Finished the *Esame di Stato* with 100/100.

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## Courses and training

- 2016 Nyenrode Business Orientation Week
- 2015 Physics with Industry Workshop: VyCAP case.
- 2015 The Art of Presenting Science
- 2015 The Art of Scientific Writing
- 2011 Time management
- 2011 Conflict solving

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## Awards

- 2008 AUGM Scholarship for studying at UNICAMP, Brazil.
- 2007 Primeiro Premio Embaixada do Brasil, Buenos Aires, Argentina.
- 2004 America Latinissima Scholarship, Unione Latina.

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## Computer skills

- Basic BASIC, C
- Intermediate COMSOL, FORTRAN, L<sup>A</sup>T<sub>E</sub>X
- Advanced PYTHON, PYQT, Matlab, Linux, Microsoft Windows

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## Extra Activities

- 2016 Coordinator of the network of Argentinian researchers in Netherlands
- 2015 Editor of Thesis, Leiden Ph.D. association magazine
- 2014 Vice Chair, Treasurer, and Webmaster of Leiden Ph.D. association

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## Communication Skills

- 2016 Oral presentation at MNO, Lyon
- 2016 Oral presentation at PicoQuant Workshop, Berlin
- 2015 Oral presentation at HRSMC Symposium, Amsterdam

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## Languages

Spanish	<b>Mothertongue</b>	
English	<b>Advanced</b>	<i>Con conversationally fluent</i>
Italian	<b>Advanced</b>	<i>Con conversationally fluent</i>
Portuguese	<b>Advanced</b>	<i>Con conversationally fluent</i>
German	<b>Basic</b>	<i>Basic words and phrases only, A2 level.</i>
Dutch	<b>Basic</b>	<i>Basic words and phrases only, A2 level.</i>

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## Interests

- Tango Dancing
- Traveling
- Reading
- Cooking
- Making a better world
- Writing