Martín **Villalba**

🏠 Köln, Germany ✉ villalba@7c0h.com

EDUCATION

Jan. 2013 to Aug. 2019 — **PhD in Computational Linguistics**
Saarland University, Germany
- ▸ Researched and implemented theoretical models of user behavior, and fit them to data with Machine Learning techniques.
- ▸ Taught class on Language theory, coordinated events and group activities.
- ▸ Selected courses: Advanced NLP, Seminar on modern NLP topics.

Mar. 2002 to Feb. 2011 — **Licentiate in Computer Science (M.Sc. equivalent)**
National University of Córdoba, Argentina
- ▸ Licentiate Thesis: Aspect-oriented web requirements engineering with model transformations.
- ▸ Selected courses: Artificial Intelligence, Microcontrollers, Programming Paradigms, and Operating Systems Implementation.

WORK EXPERIENCE

Dec. 2023 to present — **Postdoctoral Researcher in Computational Linguistics**
Lambda Project – University of Cologne
- ▸ Application of NLP techniques to the early detection of psychosis.

Jun. 2023 to Sep. 2023 — **Professional NLP Consultant**
Freelance

Feb. 2018 to Dec. 2022 — **NLP Expert Applied Mathematics – Applied Mathematics Group**
Bayer AG
- ▸ Development of text classification models, Crowdsourcing of restricted data, GUI development and deployment in the Azure cloud.

Oct. 2011 to Mar. 2012 — **R&D Internship – Silvergate Group**
IBM Argentina

Apr. 2007 to Feb. 2011 — **System Administration & Software Development**
Planning and Institutional Management Ministry, UNC, Argentina

Mar. 2011 to Sep. 2011 — **Engineering and Development of medical system for image reconstruction**
FiMe (Medical Physics)

Oct. 2009 to Jan. 2010 — **GUI Implementation for VoIP System**
FastVoIP

Nov. 2007 to May 2009 — **Medical system development for classification of skin lesions**
FiMe (Medical Physics)

VOLUNTEER WORK

Jan. 2017 to Jun. 2023 — **ACL Anthology System Administrator (2019) and Conference Organizer**
Association for Computational Linguistics

Sep. 2012 to Jun. 2014 — **Young Researchers' Roundtable on Spoken Dialog Systems**
Independent workshop, co-located and endorsed by SIGDial

SELECTED PUBLICATIONS

Generating Contrastive Referring Expressions
Martín Villalba, Christoph Teichmann, and Alexander Koller
55th Annual Meeting of the ACL – August 2017, Vancouver, Canada

The Impact of Listener Gaze on Predicting Reference Resolution
Nikolina Koleva, Martín Villalba, Maria Staudte, and Alexander Koller
53rd Annual Meeting of the ACL – July 2015, Beijing, China

Predicting the Resolution of Referring Expressions from User Behavior
Nikos Engonopoulos, Martín Villalba, Ivan Titov, and Alexander Koller
EMNLP 2013 – Octover 2013, Vancouver, Canada

Interpreting Natural Language Instructions Using Language, Vision, and Behavior
Luciana Benotti, Tessa Lau, and Martín Villalba
ACM Transactions on Interactive Intelligent Systems (Tiis) – Special Issue on Multiple Modalities in Interactive Systems and Robots. October 2014, Volume 4 Issue 3

Corpus-based Interpretation of Instructions in Virtual Environments
Luciana Benotti, Tessa Lau, Julián Cerruti, and Martín Villalba
50th Annual Meeting of the ACL – April 2012, Jeju, Korea

TECHNICAL SKILLS

Software Development Skills

Python	★★★★☆	R	★★☆☆☆
Java	★★★★☆	C	★★☆☆☆
PHP	★★★★☆	Perl	★★☆☆☆
HTML/CSS	★★★☆☆	Haskell	★★☆☆☆
SQL	★★★☆☆	Rust	★☆☆☆☆
JavaScript	★★☆☆☆	Ruby	★☆☆☆☆

Natural Language Processing (NLP)
Knowledge of Natural Language Generation (NLG), Deep Learning/Neural Networks (PyTorch), and LLMs.

General Research
Knowledge of Artificial Intelligence (AI), Data Processing and Visualization, and Crowdsourcing experiments.

System Administration
Experience with Linux, Bash, web servers (Apache, NGINX), databases (PostgreSQL, MySQL), Azure cloud, and Docker.

OTHER SKILLS

Public communication
Experienced in technical writing (LaTeX), public speaking, and poster presentations.

Graphic Design
Experience in poster, booklet, logo, and web design, digital illustration, and image editing.

LANGUAGES

English
Full Proficiency – Certified by ETS TOEFL

German
B1 level – Certified by Goethe-Institut

Spanish
Native proficiency