

Martín Villalba



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EDUCATION

Jan. 2013 **PhD student in Computational Linguistics**

to present [Saarland University, Germany](#)

- ▶ PhD Thesis: Prediction, detection, and correction of misunderstandings in interactive tasks (in progress)
- ▶ 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 **Licentiate in Computer Science (M.Sc. equivalent)**

to Feb. 2011 [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

Oct. 2011 **R&D Internship – Silvergate Group**

to Mar. 2012 [IBM Argentina](#)

Apr. 2007 **System Administration & Software Development**

to Feb. 2011 [Planning and Institutional Management Ministry, UNC, Argentina](#)

Mar. 2011 **Engineering and Development of medical system for image reconstruction**

to Sep. 2011 [FiMe \(Medical Physics\)](#)

Oct. 2009 **GUI Implementation for VoIP System**

to Jan. 2010 [FastVoIP](#)

Nov. 2007 **Medical system development for classification of skin lesions**

to May 2009 [FiMe \(Medical Physics\)](#)

VOLUNTEER WORK

Jan. 2017 **ACL Anthology System Administrator**

to present [Association for Computational Linguistics](#)

- ▶ Installation, daily maintenance, and upgrade of the ACL online Anthology
- ▶ Development of a migration plan to improve security and reliability

Sep. 2012 **Young Researchers' Roundtable on Spoken Dialog Systems**

to June 2014 [Independent workshop, co-located and endorsed by SIGDial](#)

- ▶ Contact with sponsors, venue selection, and position paper review
- ▶ Design of printed and visual material (logo, booklet, etc)

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 – October 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 Skills

Java	★★★★★	C/C++	★★★★☆
PHP	★★★★★	Haskell	★★★☆☆
Python	★★★★★	Perl	★★★☆☆
HTML/CSS	★★★★☆	R	★★★☆☆
Javascript	★★★★☆	Ruby	★★★☆☆
SQL	★★★★☆		

Natural Language Processing (NLP)

Knowledge of Natural Language Generation (NLG), Deep Learning/Neural Networks (PyTorch), and Automatic Summarization

General Research

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

System Administration

Experience with Linux, Bash scripts, web servers (Apache, NGINX), databases (PostgreSQL, MySQL), Exim, 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

AVAILABILITY

Available from January 1st, 2019. Earlier starting date possible with visa sponsorship.