



**Sandro Pezzelle**

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Corso Bettini, 31

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## Skills

### Languages

- Italian ●●●●●
- English ●●●●○
- French ●●●○○

### Programming

- Unix ●●●●○
- Python ●●●○○
  - Keras ●●●○○
  - Tensorflow ●●○○○
- Matlab ●●●○○
  - Psychtoolbox ●●●●○
- Lua/Torch ●●○○○

### Statistics & Others

- R/RStudio ●●●●○
  - lme4 ●●●●○
  - ggplot2 ●●●●○
- LaTeX ●●●●●
- LibreOffice ●●●●●
- Inkscape ●●●●○
- Html ●●●○○

### Soft Skills

- Communication ●●●●●
- Writing ●●●●●
- Organization ●●●●○
- Learning ●●●●●
- Networking ●●●●○

# Sandro Pezzelle

## PhD Student

**About me** PhD Student in Cognitive and Brain Sciences, track **Language, Interaction and Computation**. My current research - at the intersection between Computational Linguistics, Computer Vision and Cognition - is focused on the learning of **quantity expressions** (numbers, proportions, quantifiers). I'd define myself as an enthusiastic, communicative, multi-faceted person. Proactive and inclined to lifelong learning. "Let's try!" as a personal motto. My code is full of `print()`.

## Education

### 2015 - present, PhD in Cognitive and Brain Sciences

CIMeC, University of Trento, Italy. Supervisor: Raffaella Bernardi  
Computational Linguistics, Computer Vision, Cognitive Sciences, Machine Learning, AI

### 2012 - 2015, MSc in Linguistics, 110/110 cum laude

University of Padova, Italy. Supervisors: Laura Vanelli, Marco Marelli  
Distributional Semantics, Psycholinguistics, Morphology

### Jan 2014 - Jul 2014, Erasmus Program

Université Catholique de Louvain, Belgium.

Applied Linguistics, Computational Linguistics, Statistics

### 2009 - 2012, BSc in Modern Literature, 110/110 cum laude

University of Padova, Italy. Supervisor: Luca Zuliani  
Stylistic and Metrics, Formal Linguistics, Philology

## Relevant Experience

### Oct 2017, Research Intern

ILLC, University of Amsterdam. Supervisor: Jakub Szymanik  
Distributional Semantics, Formal Linguistics, Language Modelling

### Nov 2016 - Jun 2017, Language Specialist

Appen. Part-time, project-oriented remote position  
Computational Linguistics, Formal Linguistics

## Training

**2017** Mini-Symposium on Deep Generative Models, Amsterdam

**2017** iV&L Training School on Cognitive Robotics, Athens

**2016** 26th ESSLLI, Bolzano

**2016** iV&L Training School on Deep Learning, Malta

**2015 - 2016** Machine Learning by Stanford University, Coursera

## Recent Presentations

**Oct 24, 2017** *Learning to Quantify from Language and Vision: Insights from Behavioral and Computational Studies*. Talk at **Comp. Ling. Series**, Amsterdam.

**Sep 28, 2017** *Quantifiers and Proportions in Language and Vision: Insights from Behavioral and Computational Studies*. Talk at **CoSaQ Workshop**, Amsterdam.

**Sep 26, 2017** *Be Precise or Fuzzy: Learning the Meaning of Cardinals and Quantifiers from Vision*. Poster at **Google NLP Summit**, Zurich.

## Publications

- **Pezzelle, S.**, Bernardi, R., Piazza, M. (submitted). *Probing the Mental Representation of Quantifiers*, **Cognition**
- **Pezzelle, S.**, Marelli, M. (in preparation). *Do Semantic Features Capture a Morpho-Syntactic Classification of Compounds? Insights from Compositional Distributional Semantics*
- Smith, D. A., **Pezzelle, S.**, Franzon, F., Zanini, C., Bernardi, R. (2017). *Can you See the (Linguistic) Difference? Exploring the Mass/Count Distinction in Vision*, **IWCS2017**
- Shekhar, R., **Pezzelle, S.**, Herbelot, A., Nabi, M., Sangineto, E., Bernardi, R. (2017). *Vision and Language Integration: Moving beyond Objects*, **IWCS2017**
- Shekhar, R., **Pezzelle, S.**, Klimovich, Y., Herbelot, A., Nabi, M., Sangineto, E., Bernardi, R. (2017). *FOIL it! Find One mismatch between Image and Language caption*, **ACL2017**
- Sorodoc, I., **Pezzelle, S.**, Herbelot, A., Bernardi, R. (accepted). *“Pay Attention to Those Sets!” Learning Quantification from Images*, **JNLE2018**
- **Pezzelle, S.**, Marelli, M., Bernardi, R. (2017). *Be Precise or Fuzzy: Learning the Meaning of Cardinals and Quantifiers from Vision*, **EACL2017**
- **Pezzelle, S.**, Sorodoc, I., Herbelot, A., Bernardi, R. (2016). *Imparare a quantificare guardando*, **CLIC-it2016**
- Paperno, D., Kruszewski, G., Lazaridou, A., Pham, Q., Bernardi, R., **Pezzelle, S.**, Baroni, M., Boleda, G., and Fernandez, R. (2016). *The LAMBADA dataset: Word prediction requiring a broad discourse context*, **ACL2016**
- **Pezzelle, S.**, Shekhar, R., Bernardi, R. (2016). *Building a bagpipe with a bag and a pipe: Exploring conceptual combination in Vision*, **VL2016**
- Sorodoc, I., Lazaridou, A., Boleda, G., Herbelot, A., **Pezzelle, S.**, Bernardi, R. (2016). *“Look, some green circles!”: Learning to quantify from images*, **VL2016**
- **Pezzelle, S.** (2015). *Lorenzo Da Ponte: Metro e Stile delle Poesie del Periodo Americano*, **SMI2015**