NIKOLAI ILINYKH

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EDUCATION

Master of Science in Cognitive Science
University of Osnabrück

📅 Oct 2015 – Oct 2017   📍 Osnabrück, Germany

- Majors: Computational linguistics and Artificial intelligence
- Thesis Topic: "Interaction in Dialogue: The Formal Representation of Scalar Conversational Implicatures"
  Description: modelling dialogue phenomenon (e.g. scalar conversational implicature) in terms of TTR-based (Type Theory with Records) conversation-oriented semantics theory (KoS)
  Supervisors: Dr. Eleni Gregoromichelaki, Prof. Dr. Kai-Uwe Kühnberger
- Examination Score: Excellent

Bachelor in Linguistics with honours
Perm State University

📅 Sep 2011 – July 2015   📍 Perm, Russia

- Specialization: Theoretical and Applied linguistics
- Thesis Topic: "Automatic summarization with the use of semantic network WordNet"
  Description: use of lexical components of words (e.g., synonymy, hyponymy) found in large semantic databases (e.g., WordNet) for retrieving salient information from the sample texts and constructing their summaries.
- CGPA: 4.97/5.00

Exchange Semester
Leiden University

📅 Feb 2015 – July 2015   📍 Leiden, the Netherlands

- Theoretical courses on the language history with the focus on relations between culture and language.

TECHNICAL SKILLS

- **Programming Languages** : Python, Bash (Unix Shell)
- **Tools / Frameworks** : NLP libraries (e.g., NLTK, Gensim), Flask (Python), Data analysis (e.g., pandas, SciPy)
- **Familiarity** : HTML, CSS, Machine learning libraries (Scikit-Learn, Tensorflow), Image Processing Techniques, IBM SPSS

TEACHING EXPERIENCE

- **Projektseminar (Project Seminar)**
  WS (Winter Semester) 2017/18, WS 2018/19
  Course Description: practical application of tools and methods used in computational linguistics when working with corpus data (e.g., Zipf's law, Pointwise Mutual Information).
- **Einführung in die Programmierung: Python (Introduction to Programming: Python)**
  WS 2018/19
  Course Description: basics of programming in Python for students of Faculty of Linguistics and Literature
- **Natural language processing: Introduction to text analysis**
  SS (Summer Semester) 2019
  Course Description: basics of NLP for text processing (e.g., parsing, tagging), named entity recognition and coreference resolution

EXPERIENCE

Research Assistant
Bielefeld University

📅 Oct 2017 – present   📍 Bielefeld, Germany

- Supervisor: Prof. Dr. David Schlangen (currently affiliated with University of Potsdam)
- General area of research: Dialogue discourse and grounding in conversation
- Topics of research: collaborative image description in dialogue, production of multi-sentence image descriptions as coherent mini-discourses, coreference resolution, image captioning.
- Dialogue data collection experiments on crowd-sourcing platforms (Amazon Mechanical Turk) in the settings of conversational games

Student Assistant
Institute of Cognitive Science, University of Osnabrück

📅 Nov 2016   📍 Osnabrück, Germany

- Linear-mixed modelling of the linguistic experiment on the use of 'wenn' and 'falls' among the native speakers of German

PUBLICATIONS

- N. Ilinykh, S. Zarrieß, and D. Schlangen. 2019. Tell Me More: A Dataset of Visual Scene Description Sequences. In Proceedings of the 12th International Conference on Natural Language Generation, pages 152–157, Tokyo, Japan. Association for Computational Linguistics.
- N. Ilinykh, S. Zarrieß, and D. Schlangen. 2019. Meet Up! A Corpus of Joint Activity Dialogues in a Visual Environment. To appear in: Long Paper Proceedings of the 23rd Workshop on the Semantics and Pragmatics of Dialogue (SemDial 2019 - LondonLogue).
- N. Ilinykh, S. Zarrieß, and D. Schlangen. 2018. The task matters: Comparing image captioning and task-based dialogical image description. In Proceedings of the 11th International Conference on Natural Language Generation, pages 397–402, Tilburg University, The Netherlands. Association for Computational Linguistics. Presented as a poster at INLG 2018.
- D. Schlangen, T. Diekmann, N. Ilinykh, S. Zarrieß. 2018. slurk - A Lightweight Interaction Server for Dialogue Experiments and Data Collection. In: Short Paper Proceedings of the 22nd Workshop on the Semantics and Pragmatics of Dialogue (AuxDial / SemDial 2018). Presented as a poster at SemDial 2018.
- D. Schlangen, N. Ilinykh, S. Zarrieß. 2018. MeetUp! A Task For Modelling Visual Dialogue. In: Short Paper Proceedings of the 22nd Workshop on the Semantics and Pragmatics of Dialogue (AixDial / SemDial 2018). Presented as a poster at SemDial 2018.
- D. Schlangen, N. Ilinykh, S. Zarrieß. 2018. Visual Dialogue Needs Symmetry, Goals, and Dynamics: The Example of the MeetUp Task. In: Proceedings of the 1st Workshop on Shortcomings in Vision and Language (SiVL) at ECCV 2018. Presented as a poster at SiVL 2018.

LANGUAGES

- Russian (native)
- English (fluent)
- German (intermediate)
- Polish (basic)