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https://anitavero.github.io/

Summary

I'm a senior Machine Learning researcher / developer, I sing, write articles, stories and poetry.

I have a PhD in Multimodal Natural Language Processing from the University of Cambridge.

My interests are Machine Learning, Natural Language Processing, Computer Vision with an increasing focus on Responsible AI and Interpretable Al. I'm also thinking a lot about re-imagining human connections in a globalized, virtual world.

My roles have involved strategy building, leading projects, mentoring/managing and supervising people. People management and strategising is a path I aim to pursue in the future as well.

(The latest CV at all times is available here.)

Experience

Unitary London (United Kingdom)

SENIOR MACHINE LEARNING RESEARCH ENGINEER, MANAGER

Apr. 2023 - Present

- Researching and developing multi-modal video understanding models. Building in house models as well as using LLMs (see paper in best of ICCV 2023 magazine).
- Developing the company's product/research strategy, regarding the state of AI and AI regulation.
- · Visibility: Publishing papers, presenting at conferences, giving talks at events, writing blog posts. E.g., poster at ICCV 2023.
- Managing junior member.
- Following upcoming AI regulations, visiting conferences (e.g. AIES, London AI Governance Talks, AI Summit Talks, ICCV) and writing about them.

London (United Kingdom) Unitary

MACHINE LEARNING RESEARCH ENGINEER

May. 2022 - Apr. 2023

- Researching and developing multi-modal video understanding models with a special focus on harmful content detection.
- Visibility: Giving talks (E.g. Talk on Responsible AI at the University of Cambridge Institute of Astronomy (Dec 2022), writing blog posts.).

O'Neil Risk Consulting & Algorithmic Auditing (ORCAA)

USA (remote)

VOLUNTEER RESEARCHER

Feb. 2022 - Apr. 2022

Sep. 2021 - May. 2022

Oct - Dec 2019

· Researching systems which infer sensitive characteristics to detect social bias.

Crimson Research Institute United Kingdom (online)

Mentoring an undergraduate student on an AI research project.

Private Tutoring United Kingdom

TUTOR IN COMPUTER SCIENCE, PROOFREADING PHD APPLICATIONS

Machine Learning and Real-world Data Course

Cambridge, United Kingdom LAB DEMONSTRATOR

• Part IA CST course at Computer Laboratory, University of Cambridge.

Supervisor at University of Cambridge

Cambridge, United Kingdom

CO-SUPERVISOR

GUEST RESEARCHER

RESEARCHER

• I co-supervised Christopher Davis, a Master student, on his thesis project about mutlimodal semantics. He got distinction and later a PhD position in our research group.

German Research Center for Artificial Intelligence (DFKI)

Saarbrücken, Germany

Jan. - March 2015

• Kognit project: Cognitive Models and Mixed Reality for Dementia Patients.

· Image-based representation of phrases towards a goal-oriented, symbol-based dialogue system.

Neural Information Processing Group

Budapest, Hungary

2012 - 2015

· Project leader and developer. Organised experiments with human participants with special needs.

- Natural Language Generation from pictorial symbols supporting Augmentative and Alternative Communication.
- Neural network model for fast estimation of structured sparse code.
- · Semantic grounding in a 3D virtual environment.
- Sentiment analysis from linguistic and multimodal features.
- MediaWiki collaborative content management system in the EuRoSurge (European Robotic Surgery) Project.

DECEMBER 11, 2023 ANITA LILLA VERÖ · CURRICULUM VITAE MorphoLogic Budapest, Hungary

R&D INTERN IN NATURAL LANGUAGE PROCESSING

Jun. - Aug. 2010 • Information Retrieval using the WordNet ontology in C++ programming language.

Education

University of Cambridge

Cambridge, United Kingdom

PhD in Machine Learning (Multimodal NLP)

2015 - 2022

• Thesis: Transparent Analysis of Multi-Modal Embeddings

Eötvös Loránd University

Budapest, Hungary

MSc in Computer Science

2012 - 2014

• Information Systems · Grade Outstanding

Eötvös Loránd University

Budapest, Hungary

BSC IN COMPUTER SCIENCE

2009 - 2012

Grade Excellent

Eötvös Loránd University

Budapest, Hungary

BSC IN GERMANIC STUDIES

2007 - 2009

• Discontinued, moved to Faculty of Computer Science.

Skills_

Programming Python, MATLAB, SQL, &TFX, HTML, CSS, MaterialUI, React

Scientific Computing PyTorch, Lightning, LLMs, PyTorch DDP, Numpy, Scipy, Scikit Learn, NLTK, OpenCV, TensorBoard, SpaCy

> DevOps Anaconda, Pytest, PDB, Git, AWS, SLURM, WandB

Project Management Shortcut, GitHub, Notion, Confluence

> Hungarian (native), English (full proficiency), German (intermediate) Languages Singing, Guitar, Writing, Music Production (Logic Pro, iMovie)

Extracurricular Studies

California Institute of the Arts

Online 2021

SHARPENED VISIONS: A POETRY WORKSHOP

Santa Fe Institute Online INTRODUCTION TO COMPLEXITY 2018

RegML Summer School Genoa, Italy

REGULARIZATION METHODS FOR MACHINE LEARNING

2016

2014

Lisbon Machine Learning Summer School

Lisbon, Portugal

MACHINE LEARNING AND NLP · LEARNING WITH BIG DATA

Online, Coursera

MACHINE LEARNING · INSTRUCTOR: ANDREW NG

2014

Awards

Stanford University

2023 Best of ICCV 2023 Magazine, poster and extended abstract Paris, France

2014 Best Student Video Award, AAAI Video competition Québec, Canada

2014 Telepresence system) Lille, France

2013 Third Prize, National Conference of Student's Scholarly Circles (OTDK) Budapest, Hungary

Communal Activity

Award of the Challenge Handicap & Technologies, Reseau Nouvelles Technologies APF conference (for our

Women@CL Cambridge, United Kingdom

MENTORING OFFICER AND REPRESENTATIVE IN THE CAMBRIDGE COMPUTER LABORATORY'S GRADUATE FORUM OF WOMEN@CL

2017 - 2018

• Women@CL is an organisation to support women in computer science. It involves a mentoring system and provides representation of role models by organising talks and conferences.

Cambridge NLIP Seminars

Cambridge, United Kingdom

2017

• Weekly seminar series in NLP and Machine Learning related topics

Media_

SEMINAR ORGANISER

Blog Medium

WRITER 2019 - Present

• Blog on Responsible AI, mental health and other topics. My summary of Twitter's First Algorithmic Bias bounty challenge was published in Codex.

Video: Telepresence for People with Communication Impairment

AAAI, YouTube

RESEARCHER, DIRECTOR, ACTOR

2014

2014

• "Augmentative and Alternative Communication and Telepresence" video that won the Best Student Video Award at AAAI Video Competition.

Interviews about the AAC Telepresence system

News Papers, Television

RESEARCHER

• index.hu: one of the biggest Hungarian news portals.

- · Hungarian RTL Klub news.
- Novum innovation and technology programme of the Budapest TV channel.

Publications

cations	
Language as the Medium: Multimodal Video Classification through text only, Laura Hanu, Anita L. Verő, James Thewlis, ICCV 2023, Paris, France - Best of ICCV 2023 Magazine	ICCV 2023
Transparent analysis of multi-modal embeddings (PhD Thesis), Anita L. Verő, University of Cambridge,	_ , , , ,
Computer Laboratory, 2022	Cambridge 2022
Efficient Multi-Modal Embeddings from Structured Data , Anita L. Verő and Ann Copestake, arXiv:2110.02577	arXiv 2021
Deconstructing Multimodality: Visual Properties and Visual Context in Human Semantic Processing,	*C=140010
Christopher Davis, Luana Bulat, Anita L. Verő and Ekaterina Shutova, *SEM2019, Minneapolis, USA	*SEM2019
Modelling Visual Properties and Visual Context in Multimodal Semantics , Christopher Davis, Luana Bulat, Anita L. Verő and Ekaterina Shutova, NIPS 2018, Montreal, Canada	NIPS 2018
Virtual Embodiment: A Scalable Long-Term Strategy for Artificial Intelligence Research , Douwe Kiela, Luana Bulat, Anita L. Verő and Stephen Clark, NIPS (MAIN) 2016, Barcelona, Spain	NIPS 2016
Comparing Data Sources and Architectures for Deep Visual Representation Learning in Semantics,	
Douwe Kiela, Anita L. Verő and Stephen Clark, Proceedings of the Empirical Methods in Natural Language	EMNLP 2016
Processing Conference (EMNLP 2016) Austin, Texas	
Columnar Machine: Fast estimation of structured sparse code , András Lőrincz, Zoltán Á Milacski, Balázs	BICA 2015
Pintér, Anita L. Verő Biologically Inspired Cognitive Architectures, 2015	DICA 2013
Maintain and Improve Mental Health by Smart Virtual Reality Serious Games, András Sárkány, Zoltán	
Tősér, Anita L. Verő, András Lőrincz, Takumi Toyama, Daniel Sonntag. Proceedings of the 5th International Symposium on Pervasive Computing Paradigms for Mental Health, LNCS Spinger, 2015	MINDCARE 2013
Towards a Smart Wearable Tool to Enable People with SSPI to Communicate by Sentence Fragments,	
Gyula Vörös, Anita L. Verő, Takumi Toyama, András Lőrincz, Balázs Pintér, Brigitta Miksztai-Réthey, Daniel	MINIDCADE 201
Sonntag. Proceedings of the International Symposium on Pervasive Computing Paradigms for Mental Health, LNCS Spinger, 2014	MINDCARE 2014
Mobile AAC Solutions using Gaze Tracking and Optical Character Recognition, Gyula Vörös, Brigitta	
Miksztai-Réthey, Anita L. Verő, Takumi Toyama, Jason Orlosky, Daniel Sonntag, András Lőrincz. 16th Biennial	ISAAC 2014
Conference of the International Society for Augmentative and Alternative Communication (ISAAC), 2014	
Gaze Tracking and Language Model for Flexible Augmentative and Alternative Communication in	
Practical Scenarios , Anita L. Verő, Brigitta Miksztai-Réthey, Gyula Vörös, Ádám Zsigmond, Balázs Pintér,	15446 201
Takumi Toyama, Jason Orlosky, Daniel Sonntag, András Lőrincz. 16th Biennial Conference of the	ISAAC 2014
International Society for Augmentative and Alternative Communication (ISAAC), 2014	