

BRUNO VISCONTI

Berlin, Germany

Mail: visavisconti@proton.me

Web: brunovisconti.vercel.app

PROFESSIONAL EXPERIENCE

IT and Software Engineering

Leibniz-Centre General Linguistics (ZAS Berlin)

August 2018 - July 2022

- Developed and maintained software applications and data structures to support scientific research in computational linguistics, neurolinguistics, psycholinguistics, phonetics, audio processing and corpus analysis
- Supported over 100 researchers by managing system, network and information security

Co-Founder and Lead - *Bilgisaray*

February 2019 - Today

- Co-founded and managed a community center dedicated to psychosocial initiatives focusing on intellectual disabilities and antiracism
- Developed and implemented projects including therapeutic care and digital interventions for vulnerable groups
- Oversee fundraising, networking, organizational strategy, partnerships and manage budgets up to €100,000
- key research subject of “Transforming Solidarities. Praktiken und Infrastrukturen in der Migrationsgesellschaft” (Berlin University Alliance)

ML Research Engineer - *SAR-CAM*

February 2019 - Today

- Designed, trained and evaluated computer vision models for automated detection and tracking of boats and persons in distress in maritime search-and-rescue environments, improving robustness across challenging sea conditions
- Built end-to-end ML pipelines for preprocessing, horizon detection, image stabilisation, training, validation and reproducible evaluation in Python
- Developed anomaly detection and tracking components to support long-range scanning, multi-frame object association and operator-assisted situational awareness

SKILLS

Software Development:

Advanced: Python

Intermediate: Julia, Bash, SQL, Javascript

Familiar: Lean, C++, Rust

Statistical Computing:

Advanced: NumPy, SciPy, Pandas

Intermediate: Matlab, Polars, R

Machine Learning & Deep Learning:

Advanced: PyTorch (Audio, Video, Geometric), TensorFlow, Keras, OpenCV

Familiar: VLM

Audio, Video & 3D:

Advanced: Librosa, Ableton, OpenCV

Intermediate: Blender, PyPraat, Unity, Pure Data

Familiar: PyMesh

Data Engineering & Infrastructure:

Intermediate: Hadoop, Spark, Docker

Domain Expertise: Multimodal data analysis from neuroimaging and behavioral recordings

Project Management: Planning, Fundraising, Interdisciplinary Team Leadership & Networking

Mathematical Consultant - Free Association

February 2025 - Today

- Developed mathematical models and formal analyses for organisational or decision-making problems, translating abstract theoretical questions into structured quantitative frameworks
- Applied methods from [optimisation / graph theory / dynamical systems / statistics] to analyse complex systems and produce technical recommendations
- Prepared analytical reports and communicated mathematical findings in a form usable for non-specialist collaborators and organisational stakeholders

Data Science Consultant - Alarm Phone

February 2025 - Today

- Built data processing and analysis workflow for operational and humanitarian data
- Produced statistical summaries, visualisations and analytical outputs

EDUCATION

BSc Mathematics - Freie Universität Berlin

October 2011– September 2015

- Focus on Differential Geometry, Topology, Discrete Mathematics
- Supplementary courses in Philosophy of Mind, Science, and Language, enriching understanding of cognitive and psychological theory

MSc Mathematics - Freie Universität Berlin

October 2016 – September 2019

- Focus on Discrete Geometry, Computer Graphics, Neural Networks, Scientific Computation
- Coursework and projects related to computational methods applicable to neuroscience and bioinformatics

Big Data Engineering Specialization - alfatraining Bildungszentrum GmbH

Deep Learning Specialization - alfatraining Bildungszentrum GmbH

Visiting Student - MSc Biophysics (Humboldt-Universität zu Berlin) & MSc Cognitive Neuroscience (Freie Universität Berlin)

Since October 2025

LANGUAGES

Native: German, Polish

Fluent: English

Familiar: Chinese, French

MEMBERSHIPS

- Kunstwerkstatt der Lebenshilfe
- EDGE - Blurring the Borders between Art and Neuroscience
- Psychoanalytische Bibliothek

EXTRACURRICULAR ACTIVITIES

- Sound Art productions for radio Reboot.fm (2020) and movie LEON (2023, Poland, 81 minutes)
- Led a reading group on psychoanalysis, philosophy of mind and psychology (2019-2022)
- Participation in The Algonauts Project 2025 Machine Learning Challenge: How the Human Brain Makes Sense of Multimodal Movies