



ŁUKASZ BORYŃ

SENIOR RESEARCH SCIENTIST

EDUCATION

PhD in Molecular Biology
The Research Institute
of Molecular Pathology
2012-2016

MSc in Med. Biotechnology
University of Łódź
2009-2011

BSc in Biotechnology
University of Łódź
2006-2009

CONTACT

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Github
github.com/lukabor

LinkedIn
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SKILLS

Scripting	Orchestration
- R	- {targets}
- Python	- Prefect
- PyTorch	- harness eng.
- bash/awk	- agentic eng.

REFERENCES

Available upon request.

PROFESSIONAL SUMMARY

Computational biologist with 7+ years of experience building tools for drug discovery — predicting cell-cell interactions (e.g., ligand-receptor signaling) and stratifying patients from healthy controls using single-cell and spatial transcriptomics data. Certified Scrum Master (PSM I) and Product Owner (PSPO I), bringing Agile delivery discipline to long-horizon research.

WORK EXPERIENCE

Senior Research Scientist *Dec 2023 - Present*
Boehringer Ingelheim, Computational Innovation, Germany

- Built internal python library for single cell QC
- Established ligand-receptor cell-cell communication best practices (CellChat, NicheNet, LIANA); supported 9 targets via spatial ligand-receptor
- Developed R and python pipelines with custom AI harnesses to support novel therapeutic concept (NTC) discovery
- Provided complete benchmarking workflow for bulk RNA-seq deconvolution

Senior Bioinformatician *Oct 2020 - Nov 2023*
Ardigen, Digital CRO, Poland

- Designed macrophage CRISPR screen; hits called via MAGeCK, BAGEL2
- Set single-cell QC, integration, DGE best practices (scanpy, scVI, DESeq2)
- Orchestrated and parametrized gene-prioritization workflows using {targets}
- Mentored the team in single-cell analysis and served as Scrum Master

Senior Research Assistant *Jan 2018 - July 2021*
Centre of New Technologies UW, Kobiela Group, Poland

- Established and maintained bulk RNA-seq and ChIP-seq analysis pipelines
- PolLASA-certified in GM mouse handling and tissue/cell isolation
- Optimised ChIP-seq/RNA-seq library prep; Illumina NovaSeq 6000 certified

EXPERTISE

Data analysis	Tools	Certifications
- chromatin profiling (ChIP-seq, ATAC-seq)	- Squidpy	- PSM I
- spatial & single-cell transcriptomics	- Seurat, scanpy	- PSPO I
- NGS reporter assays	- BayesPrism, scaden	Languages
- functional analysis	- Cell2location, DestVI	- English C2
		- German A2

SELECTED PUBLICATIONS

Mattes et al. *Complementary CRISPR screen highlights the contrasting role of membrane-bound and soluble ICAM-1 in regulating antigen specific tumor cell killing by cytotoxic T cells.* eLife 2023

Wreckerle et al. *Transcriptomic and proteomic changes driving pulmonary fibrosis resolution in young and old mice.* AJRCMB 2023

Muerdter and Boryń et al. *Resolving systematic errors in widely-used enhancer activity assays in human cells enables genome-wide functional enhancer characterization.* Nat. Methods 2018