

# ARTEM LEBEDEV

MS in Data Science

PhD in Life Science

📍 Hamilton, ON Canada  
☎ +1 365 888 8815  
@ artem@indiechemistry.com

in linkedin.com/in/artemlebedev  
github.com/ArtemChemist  
🎓 Google Scholar

## DATA SCIENCE

TensorFlow · Keras · Scikit-learn  
PySpark · Hadoop  
MLlib R · tidyverse  
Anova · bootstrap · hypothesis testing  
CNN-Random Forest · GLM · Time Series

## DEV AND DEVOPS

Python · Postgres SQL · MongoDB  
Linux · Amazon EC2 · GCloud  
Databricks · Flask · Gunicorn · NGINX  
VB.NET · WinForms  
Git CLI · Conda CLI ·  $\LaTeX$

## LIFE SCIENCE

Oncology · Hypoxia · Inflammation  
Molecular Imaging · Pharmacology  
Small animals · Cell cultures  
Wet chemistry · Radiolabeling  
Clinical trials · Method validation

## PROJECTS

- 2021 – 2023 **Detection of bacterial colonies in Petri Dishes** Feasibility study for LabLogic Inc.  
Image classification to "sterile" and "contaminated" Petri Dishes, based on pre-trained neural networks: Efficient Net, VGG16, ResNet, Inception  
OpenCV / CNN / YOLOv8 / Python
- 2023 – present **Sales analysis and forecasting** McMaster Nuclear Reactor  
Created a sales analysis web portal: a PostgreSQL database coupled to a Flask-based web app, running on Gunicorn webserver. The data allows for SARIMA time-series based sales forecasts.  
Flask / SQL / Time series / PostgreSQL
- 2013 – 2019 **Optical spectra analysis for Quality Control System** Trace-Ability, Inc.  
Developed algorithms for processing of optical signals from absorbance, luminescence and fluorescence measurements to extract quality control data suitable for FDA-compliant drug manufacturing. Wrote production code for automated peak finding on the chromatograms, noise reduction, spectral normalization and outlier detection.  
Signal processing / C#
- 2012 – 2013 **UI and hardware for experimental drug manufacturing system** UCLA  
Build an prototype liquid-handling system aided by radiation and optical sensors. Developed a C#-based software that allowed for asynchronous operations of the hardware, UI and data acquisition boards. The system was featured in two academic publications.  
Signal processing / WinForms / Async Programming
- 2012 – 2013 **Sensor signal processing for automated chemistry modules** Siemens Healthcare  
Developed an algorithm for liquid transfers in a GMP-compliant automated drug manufacturing system. Processing a stream of data from various sensors, algorithm controlled liquid-handling hardware. The system was used in FDA-compliant manufacturing of radio pharmaceuticals.

## EDUCATION

- 2021 – 2024 **Master in Data Science** University of California Berkeley  
Courses: ML at scale, Applied ML, Statistics for data science, Data engineering, Time series and panel data, Research design, Data Science programming
- 2002 – 2005 **PhD in Chemistry** Moscow State University  
Thesis: New aspects of Pd-catalyzed amination and its application in metallocene synthesis

## EXPERIENCE

- 2022 – Present **Commercial Manager** McMaster Nuclear Reactor, Canada  
Business development and sales process for medical isotopes business
- 2015 – 2019 **Chief Technology Officer** Trace-Ability, Inc., Los Angeles, CA  
Technical founder, oversaw development and productization of software-hardware complex for quality control of radiopharmaceuticals.
- 2013 – 2015 **Associate Project Scientist** University of California, Los Angeles  
Development of small molecules for imaging of inflammation in tumor models.

## LANGUAGES

**English** - fluent  
**Russian** - native

## HOBBIES

Hydroponic gardening,  
rock climbing, trail running

## ACADEMIC PUBLICATIONS

27 peer-review papers, 11 patents,  
h-index 16