
EXPERIENCE

DATA SCIENCE — 5 YEARS, SOFTWARE ENGINEERING — 6 YEARS, PROJECT MANAGEMENT — 2 YEARS

Researcher [Affective & Data Computing Laboratory](#) **2019 - 2024**

- Focus: Human performance in complex systems emphasizing the application of Large Language Models (LLM).
- Led 3 research projects, examining laws underlying achievement in highly competitive environments.
- Architected and produced the probabilistic human performance estimation method and QC technique.
- Utilized fine-tuned LLMs to create and integrate solutions for classification and forecasting.
- Stack: R (tidyverse, dplyr, car, lme4, caret, MASS, shiny, ggplot2, plotly), Python (NumPy, Pandas, SciPy, PyTorch, Keras, TensorFlow), MySQL, PostgreSQL, GPT-3.5, Llama2, ALBERT.

Instructional Assistant [University of Houston](#) **2019 - 2023**

- Instructed 4 classes: [Statistical methods in research](#), [Ubiquitous computing](#), [Data Structures and Algorithms](#), [Introduction to Programming](#) for more than 2000 students in Computer Science department.
- Implemented new technologies, frameworks, and standards in the curriculum and student mentoring.
- Personal teaching philosophy anchored to the following principles: Practical Application, Critical Thinking, Holistic Understanding, Effective Communication, Feedback and Adaptation.
- Technologies used: R, Python, Swift, C++, JS, HTML, CSS.

Project / Delivery Manager [Luxoft, DXC / Deutsche Bank](#) **2018**

- Managed multiple teams of engineers, data scientists, analysts, ensuring delivery of key projects.
- Successfully managed the delivery of three major releases and led the execution of two Proof of Concept initiatives for new products.
- Communicated with, coached, and coordinated international employees (53 FTE in 4 countries).
- Tools & Frameworks: Jira, Confluence, MS Office, Agile, Scrum, SDLC, PRINCE2.

Software Engineer / Head of Automation [General Satellite](#) **2010 - 2017**

- Created and led Automation Department. Focus: monitoring, forecasting, and analytical tools development.
- Developed four software/hardware products for Digital Video Broadcasting analytics and monitoring.
- Stack: Python3 (TensorFlow, Celery, Tornado), Elasticsearch, Grafana, Postgres, Oracle, PowerShell, Bash, Debian.

EDUCATION

Doctor of Philosophy (Ph.D.) [University of Houston](#) **2023**

- Computer Science, CGPA: 3.9

Masters (M.S.) [St. Petersburg Polytechnic University](#) **2012**

- Mechanical Engineering

Professional Training [ITMO, St. Petersburg Polytechnic University](#) **2014 - 2015**

- Database Development and Administration, Python Software Development

LEADERSHIP ACTIVITIES AND AWARDS

- **Completed:** [Google's FooBar](#) challenge, 2022
- **President of the Computer Science Graduate Students Association**, University of Houston, 2019 - 2021
- **Employee of the year**, General Satellite, 2016

LANGUAGES, TECHNOLOGIES, AND FRAMEWORKS

- Python; R; SQL; C++; Swift; Bash; PowerShell.
- Git; Atlassian Jira/Confluence; Redmine; OSF; Zabbix; Wireshark; Linux; Debian; MS Server.
- MLOps; LLMops; LLM System design; DevOps; ITIL; SDLC; Agile; Scrum.

PUBLICATIONS

- [CONFERENCE PAPER] Hasan, Tsiamyrtzis, **Zhukov**, Manser, Wunderlich, Pavlidis (2023) ACM CHI 2024.
- [CONFERENCE PAPER] **Zhukov** et al. (2022) Convergence in Affective Sciences, ISRE 2022, LA CA
- [IN PREPARATION] **Zhukov**, Tsiamyrtzis, Pavlidis (2024) Modeling of Competitive Human Performance
- [IN REVIEW] **Zhukov**, Pavlidis, Dukes (2023) Quantitative History of Affectivism
- [PUBLISHED] Zhukova, Li, **Zhukov**, Grigorenko (2023) Children, 10(8), p.1367.

