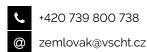
# KRISTYNA ZEMLOVA

"Everything is possible. The impossible just takes longer" – Dan Brown





#### WORK EXPERIENCE

2/2023 - 8/2023

**Product Analyst Intern** 

**MSD Prague** 

part-time

Working on various projects among the team of Discovery Informatics at MSD Prague, from coding to UX Design and Business analysis.

Agile Project Management / Jira / Figma / Microsoft Power Apps / Microsoft Power BI / React.js / UX Research / User Interface Design / Business Analysis / Typescript /

9/2022 – 8/2023 part-time Researcher PhD student

**University of Chemistry and Technology Prague** 

Working on research projects of the Bioengineering and Advanced materials group (BEAMlab) at the Department of Chemical Engineering UCT Prague, supervision of bachelor students, mentoring.

Project: Synthesis and characterization of porous materials for encapsulation of enzymes, later extension into the Doctoral thesis and scientific publications.

FTIR / SEM / BET Sorption Analysis (QuantaChrome Nova Series) / OriginPro / Python3

5/2021 - 9/2022 full-time Graduate researcher

University of Chemistry and Technology Prague

Working on research projects of the Bioengineering and Advanced materials group (BEAMlab) at Department of Chemical Engineering UCT Prague.

Project: Synthesis of porous materials for sorption of gases, later extension into the Master's thesis and scientific publication.

FTIR / SEM / BET Sorption Analysis (QuantaChrome Nova Series) / OriginPro / Python3

7/2020 - 9/2020 part-time

Internship

SPOLANA s.r.o.

Internship at Spolana Neratovice, as part of the Master's degree programme at UCT Prague. Project: *Measurement and control system design of C202 rectification column for apparatus corrosion prevention.* 

7/2019 - 12/2019 part-time

Internship

**EATON European Innovation Center (EEIC)** 

Internship at EEIC Roztoky, Power Distribution Department, Embedded Software Group.

Project: Smart Home Controller Web Application design

Angular / Typescript / SASS / HTML5

9/2015 - 12/2018

part-time

Laboratory Technician

Gymnázium Jana Nerudy

Preparation of laboratory exercises and organization of workshops for high school students, administration of chemistry laboratory.

**EDUCATION** 

6/2024 - 1/2025

**Javascript Developer Requalification Course** 

CodersLab Academy

Front-end Development: Javascript, VanillaJS, ES6, HTML5, CSS, SCSS, React, Git

9/2022 - Doctoral studies

University of Chemistry and Technology Prague

Chemical and Process engineering

Thesis: Synthesis and characterization of porous materials for encapsulation of enzymes

9/2019 - 8/2022

Master's degree (Ing.)

**University of Chemistry and Technology Prague** 

Chemical Engineering and Bioengineering

Thesis: Synthesis of porous materials for sorption of gases

3/2022 **ATHEN** 

Université PSL, École des Mines de Paris

Week long intensive course at Mines ParisTech.

Course: Le Langage C++(MPO1)

1/2020 - 6/2020 **ERASMUS+** 

Norges teknisk-naturvitenskapelige Universitet Trondheim

Study stay at NTNU Trondheim during Master's degree studies,

Study programme: Chemical Engineering

9/2015 - 6/2019

#### Bachelor's degree (Bc.)

University of Chemistry and Technology Prague

Process engineering, informatics and management Thesis: *Programme for crystallographic data processing* 

### **CERTIFICATES**

12/2024 UX/UI Design Principles Compact (Theory + Figma Exercises)

Udemy

Self study of UX/UI design principles. A course led by Christine moonlearning.

Figma

12/2024 The Complete 2024 Web Development Bootcamp

Udemy

Self study of web development technologies on the Udemy platform. A course led by Dr.Angela

Yu.

 $\verb|HTML5|/ CSS|/ SASS|/ Bootstrap|/ VanillaJS/ES6|/ React|/ jQuery|/ SQL|/ PostgreSQL|/$ 

Node.js / APIs / Git

# **PROJECTS**

2021 Optimisation of a cooling circuit

University of Chemistry and Technology Prague

Group semestral project at the Department of Chemical Engineering, UCT Prague, in cooperation with industry. Solutions for reduction of cooling water consumption in the Contipro Inc. prodution. My contribution to the project was a GUI for reactors cooling circuit temperature modelling, written

in MATLAB.

Project defence at a microconference.

MATLAB / MS Excel / Aspen Plus

2018 Graphical user interface

for crystallographic data processing

University of Chemistry and Technology Prague

Semestral project at the Department of Computer and Control Engineering, UCT Prague. Defence of the project at the Student Scientific Conference, later extension into the Bachelor's

thesis.

Python3 / NumPy / Pandas/ Scipy / Matplotlib / PyQt5 / MTEX Overleaf

2017 Graphical User Interface

for Raman optical activity signal processing

University of Chemistry and Technology Prague

Semestral project at the Department of Computer and Control Engineering, UCT Prague.

Defence of the project at the Student Scientific Conference.

MATLAB

### ACCOMPLISHMENTS

11/2018 1st place

#### **Student Scientific Conference**

University of Chemistry and Technology Prague

Semestral project awarded at the Student Scientific Conference in the section Process Control and Data Analysis.

Project: User interface for crystallographic data processing Python3 / NumPy / Pandas/ Scipy / Matplotlib / PyQt5

#### LANGUAGES

## OTHER INTERESTS

## **EXTRACURRICULARS**

Czech - Native Fnglish - Advance

English - Advanced (C1) French - Advanced (C1) Learning new stuff: I set a goal at 20 to try or learn at least one new thing each year. Since then, I managed to become a yoga teacher, learn chess, fly in a hot air balloon or acquire a driving license.

· Yoga lessons for students and employees of UCT Prague (2018-2022).

Tutoring classes for high school students in chemistry, mathematics & physics taught in French language.