

Vasco António Correia Saltão

Chemical Engineering graduate

Motivated chemical engineering graduate from Instituto Superior Técnico, interested in modelling and catalysis. In my master thesis I worked with Python on automating data-driven kinetic modelling of catalytic reactions, work which will be published. My degree included reaction engineering, catalysis, spectroscopy and programming, among other subjects.



LANGUAGES

- Portuguese - Native speaker
- English - C1
- French - A2

PERSONAL SKILLS

- Teamwork
- Critical thinking
- Motivation
- Adaptability
- Scientific research

DIGITAL SKILLS

- Python
- MATLAB
- Machine/deep learning (Scikit-learn, TensorFlow)
- Aspen
- Fortran
- Microsoft Office

EXTRA-CURRICULARS

- Drivers license - B1, B
- Lead guitarist in a covers band since 2014, with regular shows

REFERENCES

- Prof. Joris Thybaut
- Dr. Pedro Mendes
- Dr. Laura Pirro

EXPERIENCE



ASSISTANT RESEARCHER

(Feb 2020 - Aug 2020)

Laboratory for Chemical Technology – Universiteit Gent

Master thesis internship - "Automated rate equation screening for heterogeneous catalytic reactions based on experimental data"

- Python code of tool developed using Anaconda
- Tool automates kinetic modelling of catalytic reactions
- Tool validated by case studies
- Work developed presented at ISFM2 symposium (audience: 50+)
- Article (in preparation) - Joris Thybaut *et al.*, "Automation of data-driven rate equation screening for heterogeneous catalytic reactions"



LABORATORY ASSISTANT – QUALITY CONTROL

(Aug 2019 - Sep 2019)

F.I.T. - Fomento da Indústria do Tomate, S.A.

- Analysis of physical and chemical properties of production samples of several tomato-based products.



COLABORATOR – LOGISTICS DEPARTMENT

(Oct 2018 – Feb 2019)

XXXII Jornadas de Engenharia Química – IST

Event organized by chemical engineering students with lectures, workshops and field trips, aiming to approach students to the business and industrial world.

- Arrangement of suppliers
- Field trip monitor
- Staff member

EDUCATION



INTEGRATED MASTERS DEGREE IN CHEMICAL ENGINEERING

(Sep 2015 – Jan 2021)

Instituto Superior Técnico – Universidade de Lisboa

- Reaction engineering, catalysis, spectroscopy and programming
- Final project – "Simulation, Design and Economic Analysis of a Butyl Acrylate Production Plant" – 15/20
- Thesis – "Automated rate equation screening for heterogeneous catalytic reactions based on experimental data" – 18/20



HIGHSCHOOL DIPLOMA IN SCIENCES AND TECHNOLOGIES

(Sep 2012 – Jun 2015)

Escola Secundária de Vendas Novas