

Grzegorz Koc

+447747585472 / +48696293062 | grzegkoc@gmail.com | gregsite.net



DESCRIPTION

I am a graduating master's student at Oxford, on a bioengineering-related project. While my education is extensively biological, I find great satisfaction in solving practical problems, particularly in the realms of programming and engineering. Therefore, I look to pivot my career towards a more technical role, and I am looking for employment following graduation in September. I offer a broad skillset and am eager to develop new competencies.

EDUCATION

- **University of Oxford** (ongoing) Oct. 2024 - Sep. 2026
MSc by Research in Musculoskeletal Sciences Oxford, United Kingdom
 - 2-year full-time research degree developing an *ex-vivo* model of carpal tunnel syndrome, including mechanical stimulation and hydrostatic pressure control. Part of the [Humanoid Bioreactor Project](#) and [UK Human Functional Genomics Initiative](#). Supervised by Prof P.A. Mouthuy and Prof D. Furniss.
- **UCL (University College London)** Oct. 2021 - Jun. 2024
BSc Neuroscience London, United Kingdom
 - Interdisciplinary bachelor's programme in neuroscience, including physiology, electrophysiology, molecular biology, pharmacology, mathematics, programming, neuroinformatics, and research methods.
 - Bachelor's project investigating vascular changes in a mouse model of diabetic cardiomyopathy. Supervised by Dr. S. Mastitskaya and Prof. D. Attwell.
- **University of Sheffield** Oct. 2020 - Jun. 2021
BDS Dentistry Sheffield, United Kingdom
 - First year completed successfully. Strong foundation on human anatomy and physiology.
- **British School of Brussels** 2015-2020
High School Tervuren, Belgium
 - International/British school system including IGCSE and A Level (biology, chemistry, math).

SKILLS

- **Research skills:** Planning and conducting experiments, operating laboratory equipment, work with protocols and safety regulations, data processing, analysis, interpretation, and visualization, tissue and cell culture, tissue staining and imaging, image analysis (ImageJ incl. macros), basic molecular biology techniques
- **Engineering skills:** 3D design (Fusion 360, Blender), 3D printing, use of workshop tools, design according to specification, basic CNC
- **IT skills:** MS Office suite, intermediate programming competencies, Linux familiarity, basics of web server hosting and networks (incl. HTML/CSS, JavaScript), basic game design (Unity/C#, Roblox/Lua), custom macro/script programming, mathematical and biological basis of neural networks
- **Other skills:** Problem solving, quick learner, adaptable, interacting with machines, tinkering, creative tasks, repairs/troubleshooting

PROJECTS

- **Humanoid bioreactor project:** as mentioned above. Includes platform design, production, testing, and demonstrating research use.
- **Interactive 3D-printed wrist model:** based on MRI data, used for patient/public education and engagement.
- **Simple neural network:** independently programmed in Python for simple image modifications (e.g. edge detection, blur, pixelate). Includes GUI, file loading/saving, BMP image processing.
- **Self-hosted website:** available at grzegorz koc.net. Nginx web server running on Raspberry Pi. Established March 2026.

EMPLOYMENT HISTORY

- **St. Hilda's College Library** [🌐] Jul 2024 - Sep 2024
Library invigilator Oxford
 - Reshelving books according to a modified Dewey Decimal system and supervising the library during evening hours and weekends.
- **DHL Express** [🌐] Jul 2024 - Sep 2024
Warehouse operative Warsaw, Poland
 - Processing invoices for outgoing parcels, in cooperation with customs office. Occasional manual work.
 - Trained on relevant health & safety, basic shipping regulations, data safety, and professionalism.
- **Botnar research Centre**[🌐] Jun 2023- Sep 2023
Research intern Oxford
 - Full-time research internship in Prof P.A. Mouthuy's lab, designing a tendon bioreactor chamber and mechanical finger model.
- **Bar Elba** [🌐] Jun 2022- Sep 2022
Cook Waterloo, London
 - Line cook at bar kitchen, trained in food preparation and kitchen health & safety.
- **Various part-time or odd jobs** 2018-2025
 - Including retail, focus groups, and covid test centre worker.

ADDITIONAL INFORMATION

Languages: Polish (Native), English (Fluent, second language), French, Spanish, German, Mandarin (Basic)

Other: Polish cat. B driver's license