

JOCHEM LANGEN

ESA Spin Your Thesis Researcher & Physics Student Rep. Chair at Durham University (penultimate)

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github.com/JochemLangen/JWHL-Phys

EXPERIENCE

Research Analyst (Intern)

EnAppSys Ltd: enappsys.com

Jun 2020 – Sep 2021

Stockton-on-Tees, UK

- Two times summer Internship doing economic research; collecting, processing & analysing data on the European Energy market, supported by project stand-ups and presentations.
- The project on renewable energy subsidies included web- & correspondence based research with Excel data analysis and Latex-based report writing; for use in forecasting models and consultancy services.

European Space Agency Spin Your Thesis! researcher

The Levitators: thelevitators.langen.one

Oct 2020 - Ongoing

Noordwijk, NL

- Extra-curricular research project on Near-Field Acoustic Levitation in the ESA Large Diameter Centrifuge, representing Durham with 2 other students. Part of the [ESA Spin Your Thesis! programme](https://esa-spin-your-thesis-programme.org) as one of 3 teams, we are also sponsored by [UKSA](https://uksa.org), [ELGRA](https://elgra.org), [ALTHEN](https://althen.org), [Novatech](https://novatech.org), the Durham Physics dep. and our colleges.
- Spanning multiple years, it includes high-value & -precision experimental set-up development and manufacture, project & risk management, theoretical research & modelling, financing acquisition and management, web development & media outreach, journal publications as well as conference presentations and training in many of the above.
- Presently in the development stage, we have presented at two conferences so far ([IAC](https://iac-congress.org) & [SSS](https://sss-congress.org)) with many more planned once the research has concluded.

Physics student representative Chair

Durham University

Nov 2019 – Ongoing

Durham, UK

- Leading the student feedback process within the department, organising the course representatives, chairing the **Student Staff Consultative Committee** & other meetings (e.g. on module restructuring), running elections, consulting & assisting Directors & admin staff and hosting Q&As.
- A representative on the Physics **Board of Studies**, that decides about the running of the department, and at all formal discussions on examination (e.g. -External- Board of Examiners).
- Currently co-authoring a paper for the [IJSaP](https://ijsap.org) on the virtual common room I spearheaded, hosting tutoring, module discussions, research talks etc..

Mixed & Men's Lacrosse player

Stephenson College & Team Durham, Durham University

Oct 2019 & Oct 2020 – Ongoing

Durham, UK

ABOUT

"Armed with a strong (team)work ethic and sense of responsibility & dependability, I value perfection, innovation, proactivity and efficiency. This is something I am known for through all that I do, evident from my participation in extra-curricular activities as well as my academic track record."

EDUCATION

MPhys: Physics & Astronomy

Durham University, United Kingdom

Oct 2019 – Jul 2023

40% to pass

Year 1 average grade:

88%

Year 2 average grade:

89%

Current degree classification: **High First**

VWO, Cum Laude, Nature & Technology stream

Elzendaalcollege Boxmeer, Netherlands

Aug 2012 – Jul 2019

5.5 to pass

Average grade:

9/10

Cambridge Proficiency English - C2-Level

PUBLICATIONS

Journal Articles

- K. Savva, et al. (2021). "Benefits of ESA Gravity-Related Hands-on Programmes from the Students' Perspective". In: *IAC Congress Proceedings* 72.

AWARDS



2nd & 1st Year Module Prizes

Award for the best score for the Introduction to Astronomy (1st yr) & Stars and Galaxies (2nd yr) modules



Outstanding Performance Award

An average score over 80% in year 2



Durham Inspired Award

Personal development scheme, focusing on interpersonal skills with training, coaching, extra-curricular activities and logging & reflection - Ongoing

Stephenson College Lacrosse Head Treasurer and Kit & Stash Officer

Stephenson College, Durham University

📅 Jul 2020 – Ongoing

📍 Durham, UK

- Managing account balances and (depreciation) expenditures as well as membership fees for the College club.
- In charge of research, contact, mandates and reimbursements of all purchases as well as any finances regarding club belongings. Assisting with the administrative running and led the set-up of administrative services.
- Conducting all matters regarding the Stephenson Lacrosse stash, including all proceedings with design and orders.
- Defense coach during training.

Stephenson College Fresher's representative

Stephenson College, Durham University

📅 Nov 2019 – Ongoing

📍 Durham, UK

- Member of the Freshers' Council of Stephenson College in yr 1.
- Representative for new students, presenting (online) open days and helping to organise the induction weeks.

College parent

Stephenson College, Durham University

📅 Oct 2020 – Ongoing

📍 Durham, UK

- Student mentor of four Stephenson College Physics students, providing guidance on their course and student-experience.

Automotive Engineer

Durham University Electric Motorsport: duem.org

📅 Nov 2019 – Aug 2020

📍 Durham, UK

- Assembling the next Solar car or repairing older ones, performing tests & working on preparations for races.

Part-time jobs & full-time summer jobs

📅 2013 - 2020

- **Waiter, Bartender & Host:** 't Raadhuis Wanroij; 2015 - 2020
- **Stock Clerk:** Jan Linders; 2016 - 2017
- **Farm Hand:** Veldboer Bloembollen BV; 2014 & 2015
- **Newspaper Carrier & Warehouse Helper:** Gerritsma; 2013 - '14

Co-Chair Youth Town Council

📅 2011 – 2013

📍 Mill, NL

- Consisting of representative events and quarterly meetings.



Honours Programme

[Extra certificate](#) handed out to excelling few at secondary education for extra-curricular activities



National Physics Olympiad

31st in the Country



Radboud University Talents-programme

Completed the [Computer Science: Processors university module](#) with a 9.5/10 whilst in secondary education



Maths Olympiads

Reached within 10% of the country



National Maths Group Competition

Ranked within top 10



Maths Graduation Award

[Distinction](#) for the few scoring a 9.5 or higher on the final exams

LANGUAGES

English & Dutch



German & French



Programming:

Excel, Python,
Html & CSS (Tailwind)



LaTeX & CAD (Inventor)



Javascript, C# (Unity)
& C++ (Arduino)



STRENGTHS

Dedicated

Detail-oriented

Motivator & Leader

Strong work ethic

Resilient

Responsible

Proactive

Independent

Team player

Problem solver

Programming

Data analysis

Physics

Mathematics

Economics

Representation

Hosting

Organising

Accounting

Management

Organisation

Communication

Public Speaker

Made with LaTeX