

Niamh Callinan Keenan

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Education

KU Leuven, MSc in Bioinformatics 2023 – 2025

- **Coursework:** Machine Learning, Object Oriented Programming, Science Communication and Outreach, Artificial Neural Networks, Management of Large-Scale Omics Data
- **Thesis:** L0glm R Package Development: Extending Capabilities of L0 Penalized Generalized Linear Models

Inchicore College of Further Education, QQI Level 6 in Advanced Dance Studies 2021 – 2023

- **Coursework:** Training Needs Identification, Training Delivery and Evaluation, Ballet, Jazz, Contemporary, Exercise and Fitness, Dance History

Imperial Society of Teachers of Dance, Diplomas in Dance Education In Imperial Classical Ballet and Modern Theatre Dance 2021 – 2023

Trinity College Dublin, BA Hons mod in Molecular Medicine 2017 – 2021

- **Coursework:** Advanced Molecular Biology, Chemistry, Physics, Genetics, Biostatistics, Computational Biology, and Advanced French
- **Thesis:** Immunological Analysis of Idiopathic Pulmonary Fibrosis

Experience

Data Coordinator, Medpace – Leuven, Belgium Sep 2025 – Present

- Coordinated and cleaned large clinical trial datasets in Electronic Data Capture systems, ensuring high data quality, completeness, and integrity for subsequent statistical analysis.
- Managed study documentation and data management plans, performing quality control checks and reconciling data across multiple sources to maintain accurate research records.
- Collaborated with clinicians, site staff, and monitors across international sites, developing strong cross-disciplinary communication skills

Dance Teacher, Leinster, Ireland and KU Leuven, Belgium Jan 2022 – Present

- Taught RAD and ISTD ballet and modern syllabi to students aged 3.5 - 18, prepared students for exams and shows
- Taught Beginner Adult Ballet classes in KU Leuven as part of their sports offer
- Independently managed all aspects of business operations, including financial planning, budgeting, and marketing to sustain and grow a client base.
- Developed and implemented child safety and GDPR policies for schools, ensuring compliance with legal and ethical standards.
- Designed and delivered engaging, tailored dance programs across multiple institutions, adapting teaching methods to suit diverse age groups and skill levels.

Associate Festival Producer, Laois Youth Dance Festival – Laois, Ireland Jun 2023 – Jul 2023

- Led all backstage operations of the national Arts Council funded dance festival, ensuring seamless technical rehearsals and live performances.
- Managed technical rehearsals, coordinating lighting, sound, and performer logistics, maintaining smooth scheduling and communication between production teams and artists.
- Acted as the primary point of contact for international artists, troubleshooting issues and facilitating a high-quality performance environment.

Projects

For more detail on any of the projects, see niamhck.github.io

OpenNano

- Developed a Python package to analyse transcriptomic data from NanoString GeoMx DSP machine
- Tools Used: Python, Cloudflare Pages, Sphinx, HTML, Git

To-Do Discord Bot

- Developed a project management bot for Discord with the ability to create tasks and events
- Tools Used: Python, Discord Developer Tools, Heroku, Git

Conda Environment Package Manager

- Developed bash scripts to automatically update Python library dependencies in conda environments upon activation and deactivation
- Tools Used: Bash, Conda

Algorhythm

- Developed a Python package for scalable, production-ready audio segmentation and classification, enabling efficient algorithm orchestration across diverse audio analysis workflows
- Tools Used: Python, NumPy, SciPy, scikit-learn, Git, CI/CD

Skills

Technical Skills: Microsoft Access (Database Design & Development), Microsoft Excel, Microsoft Word, Data Entry & Validation, Data Integrity & Quality Control

Programming Languages: Python, R, Java, SQL, HTML

Languages: English (Native), Irish (Native), French (Intermediate), Dutch (Beginner)

Leadership, Volunteering, and Engagement

Lead Logistics, Emergent Leuven

Sept 2024 – Jun 2025

- Manage venue setup, transportation, and equipment for events and workshops
- Oversee vendor communication and coordinate staff to ensure smooth event execution.

Student Representative, Advanced Dance Studies and MSc in Bioinformatics

- Collaborate with university staff to improve academic policies and enhance the student experience.
- Act as a liaison between students and faculty

I'm A Scientist Get Me Out of Here, Science Foundation Ireland

- A science outreach program to get students aged 5 to 18 engaged in science
- Volunteered as one of the top 10 most active scientists in 2021