

Tom Conti-Leslie

Paris, France
tom.contileslie@gmail.com
tomcontileslie.com

Education

University of St Andrews Sep 2017–Jun 2021
St Andrews, United Kingdom

MMath (Hons.) Mathematics (First class, GPA 19.5/20.0)

- Top 2021 graduating student in the Science Faculty (St Andrews *Miller Prize*).
- Specialisation in computational algebra, analysis, fluid dynamics, and probability theory.
- Masters thesis on intermittency in dynamical systems.
- Extensive volunteering and extracurricular involvement over 4 years.

Lycée International Charles de Gaulle Sep 2014–Jul 2017
Dijon, France

French Baccalauréat Scientifique with British International Option (Obtained 2017)

- Overall mark: 19/20 (Congratulations of the Jury), 20/20 in Mathematics.

Technical Skills

Programming Languages

- **Python:** Advanced knowledge. Past coursework includes methods for abstract algebra, differential equations and graph theory. Personal projects include an open source musical chord diagram generator for any instrument.
- **GAP Programming Language:** Advanced knowledge from 2020 research placement.
- **R:** Basic knowledge from statistics coursework.
- **Mathematica:** Basic knowledge from applied mathematics coursework.

Typesetting and Markup Languages

- **L^AT_EX:** Intermediate knowledge from use in university work, and from question and answer sheets for a mathematical olympiad.
- **HTML, CSS, JS:** Basic abilities from two different web projects. Some basic understanding of web server configuration, DNS systems and FTP.

Software Development Tools

- **Vim:** Comfortable using Vim and some common plugins to develop software.
- **Unix Shell:** Knowledge of basic commands.
- **Git:** Comfortable using Git and GitHub. Experience includes two open source personal projects hosted on GitHub and contribution to mathematical packages for GAP.

Technical Experience

Summer Research Placement, University of St Andrews, UK May 2020–Jul 2020
Six-week full-time placement under supervision by Prof. James Mitchell.

- Developed software to extend the GAP Semigroups package with computational methods for idempotent semigroups and strong semilattices of semigroups.
- Proved the validity of a generalised Todd-Coxeter algorithm for finitely presented bands.
- Continued regular involvement in the research group until June 2021.

Teaching Development Scholar, University of St Andrews, UK May 2018–Aug 2018
Eight-week full-time placement in the School of Mathematics and Statistics under supervision by Dr Antonia Wilmot-Smith.

- Developed L^AT_EX documents, interactive quizzes and videos for an online Moodle revision course on topics including calculus and set theory.
- The revision course is aimed at second-year University mathematics students and has been widely consulted by St Andrews students over the past two years.

Other Experience

Project Manager, Nightline France, Paris, France (*full-time paid*) Aug 2021–Present

- Reconciled demands from Nightline’s volunteers, psychologists, CEO, and sponsors to develop a volunteer mental health emergency support procedure.
- Improved internal communication by standardising Nightline’s use of online tools.
- Reworked the organisation’s database of French student mental health support services by recruiting, training, and managing a team of four phone campaigners.

Director, St Andrews Nightline, St Andrews, UK (*volunteer*) Jan 2020–Jan 2021

- Volunteered for Nightline for two years as an anonymous listening volunteer, totalling over 400 hours on 8pm-7am shifts. Served as the service’s public Director from January 2020 to January 2021.
- Coordinated the service’s transition to fully remote shifts during the pandemic without losing a day of service.
- Developed a static website designed to be the service’s public information database.
- Managed the student volunteer body, developed new service policies, and communicated with the service’s stakeholders.

President, Mathematics Society, St Andrews, UK (*volunteer*) May 2019–May 2020

- Spearheaded the pilot run of an annual mathematics olympiad involving 19 teams from 4 universities across Scotland.
- Wrote several mathematics challenge problems across the year.
- Built momentum to channel the society’s growth in the following years.

Languages

English: Native speaker

French: Native speaker

Italian: Elementary proficiency (Completed an Intermediate level class, 2019)

Awards and Prizes

- **Principal’s Medal** (St Andrews, 2021) “awarded to students who display exceptional endeavour and achievement during their time at St Andrews.”
- **John Honey Award** (St Andrews, 2021) “given to one student every year who makes an outstanding and exceptional contribution to student wellbeing.”
- **Miller Prize for Science** (St Andrews, 2021) “awarded to the most distinguished graduate student in the Faculty of Science.”
- **Sanderson Prize** (St Andrews, 2021) “awarded to the outstanding final year mathematics student based on their achievement over the degree course.”

Extra-Curricular Interests

- **Ukulele:** Member of *Ukelear Fusion*, the University of St Andrews’ ukulele band, from 2017 to 2021 (band manager 2018–2019). Arranged songs for the band, scheduled concerts, organised a sell-out Edinburgh Festival Fringe run in 2019. Concert ukulelist for two student musical theatre productions: *Chicago* and *Mamma Mia*.
- **Teaching:** Involvement in teaching development initiatives; volunteer peer tutoring and mentoring at St Andrews; teaching placement in a primary school in Cupar (Fife, Scotland) in 2019.

References

References available upon request.