

# Tom Conti-Leslie

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## 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<sup>A</sup>T<sub>E</sub>X:** 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<sup>A</sup>T<sub>E</sub>X 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.