Murray **Tannock**

M.Sc. Student · University of Reykjavik

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Education

University of Reykjavik	*Reykjavik, Iceland*
M.Sc. Computer Science	*Aug. 2014 - PRESENT*

- M.Sc. Thesis - Concurrent avoidance of Classical and Mesh Patterns *(Tentative Title)* - Supervised by Henning Ulfarsson.
- Expected Graduation - June 2016

University of St Andrews	*St Andrews, United Kingdom*
B.Sc. (Hons.) Mathematics	*Aug. 2010 - Jun. 2014*

- B.Sc. Final Project - *Turing Machines and Complexity Theory* - Supervised by Colva M. Roney-Dougal.

Teaching Experience

University of Reykjavik	*Reykjavik, Iceland*
Teaching Assistant	*Aug. 2015 - PRESENT*

Grading of continual assessment and exams. Provision of assistance during class.
Improval of logistics for assignment, collection and grading of programming assignments.

T-218-ALCO Algebra and Combinatorics	*Spring 2016*
E-402-STFO Mathematical Programming (3-week course)	*Winter 2015*
T-713-CRNU Cryptography and Number Theory	*Fall 2015*

Co-supervisor of B.Sc. Projects in Computer Science	*Spring 2015*

Co-supervised two B.Sc. students at RU in undergraduate research project in association with H. Ulfarsson and Christian Bean.

Publications and Preprints

Pattern avoiding permutations and independent sets in graphs

C. Bean, M. Tannock, H. Ulfarsson	*Submitted 2016*

`http://arxiv.org/abs/1512.08155`

Refereeing Work for Journals

Discrete Mathematics & Theoretical Computer Science, Special Edition for Permutation Patterns 2015

Presentations and Talks

Permutation Patterns 2015	*London, United Kingdom*
Pattern Avoidance and Non-Crossing Subgraphs of Polygons.	*June 2015*
Joint work with C. Bean and H. Ulfarsson	

25th British Combinatorial Conference	*University of Warwick, United Kingdom*
Pattern Avoidance and Non-Crossing Subgraphs of Polygons.	*June 2015*
Joint work with C. Bean and H. Ulfarsson	

Other Projects

Permuta

Pure Python module for Permutation Patterns

Permutation Pattern Library designed for research group at RU. Joint work with Bjarki Agust Gudmundsson, Tomas Ken Magnusson and H. Ulfarsson.

SageTest

Testing Library for SageMathCloud

Basic Testing suite for SageMathCloud to allow for automated grading in courses at RU using the SageMath System.

SMCHomeworkGeneration

Semi-automated Assignment generation for SageMathCloud

Automated Assignment generation for SageMathCloud compatible with SageTest providing faster deployment of asignments in classes involving programming assignments.

OEIS.jl

OIES Wrapper for the *Julia* Programming Language

Allows access to *The On-Line Encyclopedia of Integer Sequences®* from within a Julia script or REPL session.

Conferences attended

2015	**Permutation Patterns 2015**, 15-19 Jun.	*London, United Kingdom*
2015	**25th British Combinatorial Conference**, 6-10 Jul.	*University of Warwick, United Kingdom*
2015	**Stærðfræði á Íslandi 2015**, Mathematics in Iceland, 31 Oct.-1 Nov.	*Selfoss, Iceland*

Skills

Programming Python, LaTeX, Java, Julia, FORTRAN, Maple, R, Ruby, HTML, CSS and Javascript

References

Teaching

Henning Ulfarsson *Reykjavik, Iceland*

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Academic

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