L. Gregory

CONTACT INFORMATION

School of Mathematics
Alan Turing Building,
The University of Manchester,
Oxford Road, Manchester,
M13 9PL

Nationality: British

EDUCATION

PhD 'Ziegler Spectra of Valuation Rings' 01.07 - 12.10
Awarded 18.04.11
School of Mathematics, University of Manchester
Supervised by Professor Mike Prest
Funded by EPSRC

Certificate of Advanced Study in Mathematics 10.05-06.06
King's College, University of Cambridge

BA(Hons) Mathematics, First class degree 10.02-06.05
King's College, University of Cambridge

EMPLOYMENT

University of Manchester 09.13 -
Research assistant on EPSRC grant
EP/K022490/1 of Mike Prest

Universität Konstanz 07.11-08.13
Akademische Mitarbeiterin of Prof. Dr. Salma Kuhlmann

PAPERS

Decidability of theories of modules over canonical algebras of tubular type
arXiv:1603.03284 , preprint, 38p.
(with Mike Prest) Representation embeddings, Interpretation functors and controlled wild algebras
accepted for publication in J. London Math. Soc
arXiv:1411.3221v2
Decidability for the theory of modules over a valuation domain
Journal of Symbolic Logic
Volume 80, Issue 02, June 2015, pp 684-711
Sobriety for the Ziegler spectrum of a Prüfer domain
Journal of Pure and Applied Algebra
Volume 217, Issue 10, October 2013, pp 1980-1993

CONFERENCE TALKS AND RESEARCH VISITS

Research visit to Seconda Universit degli Studi di Napoli 08.06.15-12.06.15
Working with Amit Kuber
Talk title: Representation type and interpretation functors

Interpretation functors, wild algebras and undecidability 10.03.15
Model Theory Conference, Stellenbosch, South Africa

Interpretation functors, wild algebras and undecidability 13.01.15
Lymots Model Theory Meeting, Leeds

Interpretation functors, wild algebras and undecidability 29.08.14
16th International Conference on Representations of Algebras

Decidability for the theory of modules over a valuation domain 07.12.12
Konstanz-Naples Model Theory Days
Decidability of the Theory of Modules of a Valuation Domain via the Ziegler Spectrum 20.01.11
British Postgraduate Model Theory conference, Leeds
Decidability of the Theory of Modules over a Commutative Valuation Domain 16.10.10
Leeds-Manchester Model Theory Meeting, Leeds

SEMINAR TALKS

Decidability for theories of modules of tame canonical algebras 22.10.15
Model theory seminar at the University of Central Lancashire
Interpretation functors, representation type and undecidability 21.04.15
Manchester Algebra seminar
Interpretation Functors, Wild Algebras and Undecidability 19.11.14
Leeds Logic Seminar
Value monoids and Ziegler spectra of Prüfer rings 09.10.13
Manchester Logic seminar
Ziegler Spectra of commutative RD-rings 31.05.13
Seconda Universit degli Studi di Napoli
Ziegler Spectra of commutative RD-rings 28.05.13
Camerino
Integer parts and henselian ordered fields 21.01.13
Model Theory Seminar, Konstanz
Decidability of Theories of Modules over Valuation Domains 14.05.12
Model Theory Seminar, Konstanz
Are Ziegler spectra always sober? 07.11.11 & 14.11.11
Model Theory Seminar, Konstanz
Decidability for the Theory of Modules over Valuation Domains via the Ziegler Spectrum 26.01.11
Algebra and Geometry seminar, Bristol

CONFERENCE ORGANISATION

British Postgraduate Model Theory Conference. Organiser 01.16
Infinite-dimensional representations of finite-dimensional algebras. Summer school and Workshop, Organiser 08.15
Konstanz Women in Maths day. Organiser 05.13

TEACHING EXPERIENCE

Lecturing

Set theory Winter 2015
I designed and lectured this Msc course in Set theory. This was a class of 20 students; I got very positive feedback from the students.

Algebraic number theory Summer 2010
As a PhD student 6 hours of cover lectures in algebraic number theory to a class of approximately 100 students.

Msc projects

I am currently co-supervising an Msc student writing a project on NIP theories. While in Konstanz, I co-supervised a diploma student writing a dissertation on generalised power series fields. In Manchester I have examined Msc theses.

Seminar Courses

In Konstanz, I helped organise 3 courses where students gave talks. For the courses on p-adic Numbers and p-adically closed fields, I chose the topics and designed the course. For all 3 courses I assigned topics, supervised students preparing talks and evaluated students's talks and write-ups.

Seminar/Proseminar "p-adic Numbers"	04.13-07.13
Proseminar Positivity and Quadratic Forms	10.12-02.13
Seminar p-adically Closed Fields	10.11-02.11

Supporting lecture courses

In Konstanz, I organised exercise classes, supervised and supported student teaching assistants, supervised the marking of exams, and designed exercise sheets and exams for the following lecture courses.

Algebraic number theory	04.13-07.13
Algebra	10.12-02.13
Linear Algebra I	10.11-02.11
Linear Algebra II	04.12-07.12

Exercise classes for maths students

Linear Algebra	Summer 08 & 11
Sequences and series	Summer 09, 10 & 14
Real Analysis revision classes	January 10
Sets, Numbers and Functions	Winter 08
Maths workshop	Winter 07, 08 & 09 Summer 08

Students working in groups on small projects.

Foundation year tutorial — Summer 15

Tutorial for foundation year students covering topics in calculus and basic algebra.

OUTREACH

Making Maths at Manchester — Summer 2007, 2008, 2009

Provided tuition and pastoral care as part of a residential outreach program.

Tag der Mathematik — 03.13

Helped run "Tag der Mathematik". At this event students in their final two years of school came to Konstanz to compete in (fun) maths competitions.

PROMOTION OF WOMEN IN MATHEMATICS	Athena Swan committee member, Manchester	09.15-
	Konstanz Women in Maths seminar series, organiser	05.13-07.13
	EWM (European Women in Maths) newsletter editor	09.07-02.09
ADMIN	Logic seminar organiser, Manchester	01.16-
	CUSPOMMS organising committee member Cambridge University Society for the Philosophy of Mathematics and Mathematical Sciences	10.04-06.05
GRANTS	LMS postgraduate conference grant for British Postgraduate Model Theory Conference I wrote the majority of this grant application and was the grant holder. Value: £4000	2016
	Zukunftskolleg Mentorship program (Not taken up due to new job in Manchester) Value: 2250 €	2013
	EPSRC Doctoral Training Award	01.08-06.10
	School Scholarship Manchester	01.07-12.07

Date: 27.04.2016

L. Greaves