

Allen Gehret

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| CONTACT INFORMATION | University of California, Los Angeles UCLA Mathematics Department Box 951555 Los Angeles, CA 90095-1555 | allen@math.ucla.edu math.ucla.edu/~allen |
| EDUCATION | <i>University of Illinois at Urbana-Champaign</i> Ph.D. in Mathematics, August 2017. Dissertation Title: Towards a model theory of logarithmic transseries Advisor: Lou van den Dries <i>University of Maryland, College Park</i> B.S. in Mathematics, May 2011 | |
| EMPLOYMENT | <i>University of California, Los Angeles</i> Assistant Adjunct Professor and NSF Postdoctoral Scholar July 2017 – June 2020 | |
| RESEARCH INTERESTS | Algebra and model theory of: valued fields, valued differential fields, asymptotic differential algebra, Hardy fields, transseries, asymptotic couples and ordered abelian groups | |
| PUBLICATIONS | <i>A tale of two Liouville closures</i> , Pacific J. Math. 290 (2017), no. 1, 41–76. <i>NIP for the asymptotic couple of the field of logarithmic transseries</i> , J. Symb. Log. 82 (2017), no. 1, 35–61. <i>The asymptotic couple of the field of logarithmic transseries</i> , J. Algebra 470 (2017), 1–36. | |
| PREPRINTS | <i>Distality for the asymptotic couple of the field of logarithmic transseries</i> (with Elliot Kaplan), submitted. (16 pp.) | |
| HONORS AND AWARDS | 2017 | Tondeur Dissertation Prize Mathematics Department, University of Illinois at Urbana-Champaign |
| | 2016-2017 | <i>GAANN Fellowship</i> Mathematics Department, University of Illinois at Urbana-Champaign |
| | 2014-2016 | On <i>List of Teachers Ranked as Excellent by Their Students</i> University of Illinois at Urbana-Champaign |
| | Fall 2015 | <i>Graduate College Block Grant Fellowship</i> University of Illinois at Urbana-Champaign |
| | 2011-2014 | <i>GAANN Fellowship</i> Mathematics Department, University of Illinois at Urbana-Champaign |
| | 2011 | <i>Outstanding Senior Award</i> Mathematics Department, University of Maryland, College Park |
| | 2010 | <i>Aziz Mathematics Scholarship</i> Mathematics Department, University of Maryland, College Park |
| | 2009 | <i>Strauss Scholarship</i> |

INVITED
TALKS

Caltech-UCLA Logic Seminar, University of California, Los Angeles; Los Angeles, California (June 2018)

Model Theory Seminar, University of Notre Dame; South Bend, Indiana (December 2017)

Maryland Logic Seminar, University of Maryland at College Park; College Park, Maryland (November 2017)

Logic Colloquium, University of California, Los Angeles; Los Angeles, California (November 2017)

AMS Western Sectional Meeting, Special Session on Model Theory, University of California, Riverside; Riverside, California (November 2017)

Model Theory and Descriptive Set Theory Seminar, University of Illinois at Urbana-Champaign; Urbana, Illinois (October 2017)

Workshops at the Kolchin Seminar, The Graduate Center and Hunter College of The City University of New York; New York, New York (May 2017)

UIC Logic Seminar, University of Illinois at Chicago; Chicago, Illinois (February 2017)

Model Theory Seminar, McMaster University; Hamilton, Canada (January 2017)

OSU Logic Seminar, The Ohio State University; Columbus, Ohio (November 2016)

Maryland Logic Seminar, University of Maryland at College Park; College Park, Maryland (November 2016)

Graduate Student Colloquium, University of Illinois at Urbana-Champaign; Urbana, Illinois (October 2016)

Maryland Logic Seminar, University of Maryland at College Park; College Park, Maryland (November 2015)

AMS Eastern Sectional Meeting, Special Session on Advances in Valuation Theory, Rutgers University; New Brunswick, New Jersey (November 2015)

AMS Central Sectional Meeting, Special Session on Model Theory, Loyola University Chicago; Chicago, Illinois (October 2015)

UIC Logic Seminar, University of Illinois at Chicago; Chicago, Illinois (February 2015)

Algebra and Logic Seminar, University of Saskatchewan; Saskatoon, Canada (December 2014)

Maryland Logic Seminar, University of Maryland at College Park; College Park, Maryland (November 2014)

Berkeley Model Theory Seminar, University of California, Berkeley; Berkeley, California

nia (March 2014)

CONTRIBUTED
TALKS

XVIII Graduate Student Conference in Logic, University of Illinois at Urbana-Champaign; Urbana, Illinois (April 2017)

2015 Association for Symbolic Logic Annual Meeting, University of Illinois at Urbana-Champaign; Urbana, Illinois (March 2015)

Logic Seminar/Model Theory and Descriptive Set Theory Seminar, University of Illinois at Urbana-Champaign; Urbana, Illinois (10 talks from February 2013 - April 2017)

XIV Graduate Student Conference in Logic, University of Illinois at Urbana-Champaign; Urbana, Illinois (April 2013)

Maryland Logic Seminar, University of Maryland at College Park; College Park, Maryland (November 2010)

RESEARCH
EXPERIENCE

Program Associate at MSRI - Model Theory, Arithmetic Geometry and Number Theory, Mathematical Sciences Research Institute; Berkeley, California (January-May 2014)

Research Experience for Graduate Students (REGS1), Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Summer 2012)

Research Experience for Graduate Students (REGS0), Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Summer 2011)

Maryland Summer Scholars, University of Maryland at College Park; College Park, Maryland (May-September 2010)

REU in Computational Number Theory and Combinatorics, Clemson University; Clemson, South Carolina (May-July 2009)

WORKSHOPS AND
SUMMER SCHOOLS

Workshops at the Kolchin Seminar, The Graduate Center and Hunter College of The City University of New York; New York, New York (May 2017)

Workshop on Model Theory: From Fields to Hardy Fields, The Fields Institute for Research in Mathematical Sciences; Toronto, Canada (August 2016)

Ordered Algebraic Structures and Related Topics, Centre International De Recontres Mathématiques (CIRM); Luminy, France (October 2015)

Model Theory 2013, Ravello, Italy (June 2013)

Model Theory in Algebra, Analysis and Arithmetic, Centro Internazionale Matematico Estivo (CIME); Cetraro, Italy (July 2012)

UCLA Summer Logic School, University of California, Los Angeles; Los Angeles, California (July 2009)

TEACHING
EXPERIENCE

UCLA

Fall 2018 *MATH115A: Linear Algebra*

Summer 2018 *MATH131A: Real Analysis*

Summer 2018 *MATH167: Mathematical Game Theory*

UIUC (as TA)

Fall 2016 *MATH415: Applied Linear Algebra*
Summer 2016 *MATH415: Applied Linear Algebra*
Spring 2016 *MATH415: Applied Linear Algebra*
Spring 2015 *MATH415: Applied Linear Algebra*
Fall 2014 *MATH415: Applied Linear Algebra*
Fall 2013 *MATH241: Calculus III*
Fall 2012 *MATH241: Calculus III*
Fall 2011 *MATH241: Calculus III*

**MENTORSHIP
EXPERIENCE**

TA Mentor, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Fall 2016)

Graduate Project Mentor, “*Applications of Linear Algebra*”, Illinois Geometry Lab, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Fall 2015)

Graduate Project Mentor, “*Landscape of Asymptotic Calculus*”, Illinois Geometry Lab, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Spring 2015)

**PROFESSIONAL
SERVICE**

Reviewer for *Mathematical Reviews (AMS)*, (2017-present)

Organizer, *Graduate Model Theory Seminar*, University of California, Los Angeles; (Fall 2017 - Present)

Conference Coordinator, *XVIII Graduate Student Conference in Logic*, University of Illinois at Urbana-Champaign; Urbana, Illinois (April 2017)

Conference Coordinator, *XIV Graduate Student Conference in Logic*, University of Illinois at Urbana-Champaign; Urbana, Illinois (April 2013)

REFERENCES

Lou van den Dries, Professor, Department of Mathematics, University of Illinois at Urbana-Champaign, vddries@math.uiuc.edu

Matthias Aschenbrenner, Professor, Department of Mathematics, University of California, Los Angeles, matthias@math.ucla.edu

Philipp Hieronymi Associate Professor, Department of Mathematics, University of Illinois at Urbana-Champaign, phierony@illinois.edu