## Susan Elle

| Contact | University of California, San Diego |
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| Information | Department of Mathematics |
|  | 9500 Gilman Drive |
|  | La Jolla, CA 92093 |
|  | selle@ucsd.edu |
| Research Area | Noncommutative Ring Theory with Applications in (Noncommutative) Algebraic Geometry |
|  | I study iterated Ore extensions of dimension 5 and Artin-Schelter regular algebras. |
| Education | University of California, San Diego (expected) Spring 2016 |
|  | Ph.D. in Pure Mathematics |
|  | Advisor: Dan Rogalski |
|  | University of California, San Diego |
|  | C.Phil in Pure Mathematics Fall 2014 |
|  | M.A. in Pure Mathematics Spring 2013 |
|  | Western Washington University Spring 2009 |
|  | B.S. Cum Laude, Mathematics |
|  | B.A. Cum Laude, Spanish |

TALKS Classification of dimension 5 graded iterated Ore extensions July 2015 Workshop on Geometric Algebra. Fields institute, Toronto Canada
An introduction to Hopf algebras and IHOE's June 2015 Informal noncommutative algebra seminar. UC San Diego

Ore extensions of global dimension 5 April 2015
AMS sectional meeting. University of Nevada, Las Vegas
Special Session on New Developments in Noncommutative Algebra, III
Advancement to Candidacy
Nov 2014
UC San Diego

Publications and Susan Elle, A classification of relation types of Ore extensions of dimension 5, Preprints

ArXiv e-prints 1512.03378
Dec 2015

Honors and
Awards
2015 Summer Graduate Teaching Scholar Winter 2015 to Summer 2015 Awarded to 2 mathematics graduate students based on teaching evaluations and demonstrated interest in teaching.

- Participant in "The College Classroom," a 10 week program that covers teaching pedagogy with topics such as active learning, developing expertise, and metacognition.
- Trained in learning management systems such as Blackboard and other online resources.
- Received CIRTL (Center for the Integration of Research, Teaching, and Learning) Practitioner award for presentation of results of original research on education.

GAANN Fellowship Nominee
Fall 2012

Teaching
Experience

Service Cap Corps Volunteer Aug 2009 to Feb 2011
Escuela Maureen Courtney and Colegio Nino Jesus, Nicaragua

- Third Grade Teacher; designed and administered a curriculum in compliance with national standards, wrote and evaluated tests, handled issues with student discipline, identified struggling students and provided additional tutoring outside of normal class hours.
- Classroom assistant; assisted the teachers of grades 1-6 during math instruction, taught and reviewed basic math, provided practice problems and individual feedback to students.
- PE Instructor; Led participation in soccer games during classes' scheduled phys-
ical education times, organized a school team which competed against other teams in the city.
- Tutor; provided one-on-one math and Spanish tutoring to remedial students.
- Translator; translated donated English books into Spanish to provide students with resources to learn to read Spanish.
- College prep assistant; assisted in after school math tutoring for high school students preparing to take college entrance exams.

Programming Mathematics (intermediate)
Matlab (novice)
Python (novice)

LANGUAGES English (native)
Spanish (fluent; non-native)

