

Léa BITTMANN

Oskar-Morgenstern-Platz 1

Vienna 1090, Austria

Phone: (+33) 6 75 29 59 01

Email: lea.bittmann@univie.ac.at

Date of birth: 26/12/1991

Nationality: French and

Canadian

Education and Academic career

2019 –	UNIVERSITÄT WIEN , Vienna. Postdoctoral Researcher in the team of Anton Mellit..
2016 – 2019	UNIVERSITÉ PARIS DIDEROT , Paris. PhD in Mathematics , Advisor: David Hernandez..
July 2016	Agrégation de mathématiques , French diploma for higher education teaching.
2014 – 2015	UNIVERSITÉ PARIS DIDEROT , Paris, France. M.Sc. in Fundamental Mathematics , Summa cum Laude.
2012 – 2014	ÉCOLE NORMALE SUPÉRIEURE (ENS) , Paris. First year of M.Sc. in Fundamental Mathematics. B.Sc. in Mathematics , with high honors.
2009 – 2012	LYCÉE DU PARC , Lyon, France. Completed a three-year scientific program in preparation for the national “Grandes Écoles” competitive exam.

Publications

November 2019	<i>A quantum cluster algebra approach to representations of simply-laced quantum affine algebras</i> , preprint: arXiv:1911.13110 .
July 2019	PhD Thesis: <i>Quantum Grothendieck rings, cluster algebras and quantum affine category \mathcal{O}</i> .
February 2019	<i>Quantum Grothendieck rings as quantum cluster algebras</i> , accepted by the <i>Journal of the London Mathematical Society</i> , preprint: arXiv:1902.00502 .
August 2018	<i>Asymptotics of Standard Modules of Quantum Affine Algebras</i> , in <i>Algebras and Representation Theory</i> .
September 2015	Master Thesis: <i>Representations of the Yangian in Deligne’s category $\text{Rep}(GL_t)$</i> .

Talks - Posters

February 2020	COLLOQUE TOURNANT DU GDR TLAG , IHP, Paris, France. <i>Représentations des algèbres affines quantiques du point de vue des algèbres amassées quantiques</i> .
November 2019	SEMINAR "REPRESENTATION THEORY AND AUTOMORPHIC FORMS" , UNIVERSITÄT WIEN , Vienna, Austria. <i>R-matrices and quantum groups</i> .
June 2019	CLUSTER ALGEBRA 2019, POSTER OF THE DAY , Kyoto, Japan. <i>Quantum Grothendieck rings as quantum cluster algebras</i> .
March 2019	NUMBER THEORY SEMINAR , UNIVERSITÄT WIEN , Vienna, Austria. <i>Representations of quantum affine algebras via cluster algebras</i> .
February 2019	TENURE-TRACK TALK , UC RIVERSIDE , Riverside, USA. <i>Baxter relation, cluster algebras and quantum cluster algebras</i> .
January 2019	SÉMINAIRE GROUPES, REPRÉSENTATIONS ET GÉOMÉTRIE , UNIVERSITÉ PARIS-DIDEROT , Paris, France. <i>Anneaux de Grothendieck quantiques et algèbres amassées quantiques</i> .

December 2018	XXV BRAZILIAN ALGEBRA SCHOOL, Campinas, Brazil. <i>t</i> -deformations of Grothendieck rings as quantum cluster algebras.
November 2018	OBERSEMINAR ALGEBRA, UNIVERSITÄT ZU KÖLN, Cologne, Germany. <i>t</i> -deformations of Grothendieck rings as quantum cluster algebras.
November 2018	AACHEN UNIVERSITY, Aachen, Germany. <i>Asymptotics of standard modules of quantum affine algebras</i> .
November 2018	MATHEMATICAL PHYSICS SEMINAR, ETH, Zurich. <i>Quantum Grothendieck rings for quantum affine algebras</i> .
June 2018	QUANTUM AFFINE ALGEBRAS, Washington DC, USA. <i>t</i> -deformations of Grothendieck rings as quantum cluster algebras.
May 2018	UC RIVERSIDE, Riverside, USA. <i>Asymptotics of standard modules of quantum affine algebras</i> .
January 2017	GEOMETRY AND REPRESENTATION THEORY, ESI, Vienna, Austria. <i>Quantum Grothendieck Rings and Baxter relations</i> .

Research visits

May 2018	UC RIVERSIDE, Riverside, USA. Visited Pr. Vyjayanthi Chari.
March – July 2015	MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston, USA. Research internship in Mathematics. Advisor: Pr. Pavel Etingof.

Teaching

2019 –	LYCÉE FRANÇAIS DE VIENNE, Vienna, Austria. Occasional substitute teacher in senior and junior high school classes.
2017 – 2019	UNIVERSITÉ PARIS DIDEROT, Paris, France. Teaching Assistant in Mathematics, for second year B.Sc. students preparing for engineer schools.
2016 – 2017	UNIVERSITÉ PARIS DIDEROT, Paris, France. Teaching Assistant in Mathematics, for first year B.Sc. students majoring in Computer Science.
2013 – 2015	LYCÉE SAINT LOUIS, Paris, France. Oral examiner in Mathematics.

Administration

- **Reviewer** for the following journals: *Journal of the London Mathematical Society*, *Journal of Algebra* and *AMS Mathematical Reviews*.
- Member of the PhD Student Body at the Institut de Mathématiques de Jussieu-Paris Rive Gauche (IMJ-PRG).
- Organizer of biannual meetings between graduate students and PhD students.
- Member of the Gender Equality Committee of the IMJ-PRG.

Languages

French:	Native speaker.
English:	Fluent.
Spanish:	Good working knowledge.

Interests and Activities

- Sports: Basketball (University Championship), Scuba Diving (Open Water Diver), Cheerleading in ENS's squad, running.
- Computer skills : good knowledge of *CamL*, *Maple* and *LateX*.