

Curriculum Vitae

Dr Francesca Iezzi
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Current position

Apr 2016-Feb 2017 Early Career Fellow at **IAS** (Institute of Advanced Studies) and **IATL** (Institute of Advanced Teaching and Learning), **University of Warwick**

Education and Training

Jul 2016 **ECPR** (European Consortium for Political Research)-**ECOLAS** (European College of Liberal Arts and Sciences) Teaching and Learning Summer School, Bratislava

Sep 2011-Apr 2016 PhD in Mathematics, **University of Warwick**
PhD Thesis: *Sphere systems in 3-manifolds and arc graphs*,
Supervised by Prof Brian Bowditch

Oct 2009-Sep 2011 Master in Mathematics, **University of Pisa**,
Dissertation: *Open book decompositions of 3-manifolds and Giroux surfaces*, supervised by Prof Carlo Petronio, summa cum laude

Sep 2006-Oct 2009 Bachelor in Mathematics, **University of Pisa**,
Dissertation: *Jones polynomial and alternating links*,
Supervised by Prof Bruno Martelli, summa cum laude

Visiting Scholarships

Oct 2016 Visitor at **MSRI** (Mathematical Sciences Research Institute) Berkeley

Feb 2016 Visitor at **Kyoto University**

May 2014-Dec 2014 Visiting PhD student at **Tokyo Institute of Technology**

Jan 2010-Mar 2010 Visiting master student at the **University of Warwick**

Publications and Preprints

(With Brian H. Bowditch) *Projections of the sphere graph to the arc graph of a surface*: (2016) to appear on Journal of Topology and Analysis, preprint available at <https://arxiv.org/abs/1512.04420>

Sphere systems, standard form, and cores of products of trees: preprint (2016), available at <http://arxiv.org/abs/1610.08434>

Sphere Systems in 3-manifolds and Arc Graphs: PhD Thesis, University of Warwick

Approaches to research-led teaching at the University of Warwick (in preparation)

A New World... Out of Nothing, a review of an interdisciplinary event (in preparation)

Talks and Presentations

- Dec 2016 *Projections of the sphere graph to the arc graph of a surface*,
University of Southampton, colloquium of pure mathematics
- Jun 2016 *Graphs of arcs and spheres: maps between these objects*, **Imperial College London**, ECSTATIC (Early Career Stage Topologists At Imperial College)
- Feb 2016 *Graphs of curves, arcs, discs and spheres: connections between these objects*, **University of Kyoto**, KTGU mathematics workshop for young researchers
- Feb 2016 *Projections of spheres to arc graphs*, **Tokyo Institute of Technology**, Geometry and Topology seminar
- Oct 2015 *Projections of spheres to arc graphs*, **University of Warwick**, Geometry and Topology seminar
- Jun 2015 *Curve, arc, disc and sphere graphs: connections between these objects*, **University of Pisa**, seminario dei baby-geometri
- Mar 2015 *The core of two trees and a “nice position” for spheres*, **British Mathematical Colloquium**”, Cambridge, poster session
- Nov 2014 *Sphere systems in standard form and dual square complexes*, **Tokyo Institute of Technology**
- Feb 2014 *Complexes on Surfaces and 3-manifolds, part II*, **University of Warwick**, Postgraduate Seminar
- Dec 2013 *Complexes on Surfaces and 3-manifolds, part I*, **University of Warwick**, Postgraduate Seminar

Grants and Funding

GEAR, short-term visit at MSRI (Berkeley), Oct 2016

IAS/IATL Early Career Fellowship, Apr 2016-Mar 2017

EPSRC (Engineering and Physical Sciences Research Council), Doctoral Training Award, 2011-2015

USID (University of Pisa), visiting scholarship at the University of Warwick, Jan-Mar 2010

Teaching Experience

Spring 2016	Tutor at "Sigma", Mathematics support center, Coventry University
2015/2016	Teaching Assistant for the 3rd year module: "Manifolds", and for the first year module "Analysis II University of Warwick
2014/2015	Teaching Assistant for the 4th year module "Geometric Group Theory", University of Warwick
2013/2014	Teaching Assistant for the 4th year module "Geometric Group Theory and for the first year module "Analysis II", Supervisor for second year students, University of Warwick
2012/2013	Teaching Assistant for the 2nd year module "Geometry", Supervisor for first year students, University of Warwick
2009/2010	Tutor for first year students, University of Pisa
2008/2009	Lab Tutor for "Settimana Matematica", University of Pisa

Impact and Outreach

Talks and Presentations

Nov 2016	<i>Surfaces, loops, and symmetries</i> , Institute of Advanced Study, University of Warwick
Mar 2015	<i>What is Geometric Topology and what kind of objects does it study?</i> , University of Warwick , Cafe' Academique
Mar 2014	<i>Typical problems in the life of a Postgraduate Student</i> , University of Warwick , Postgraduate lunch
Feb 2009	<i>The Banach-Tarsky paradox</i> , workshop, University of Pisa

Events Organised

Nov 2016	" <i>A New World... Out of Nothing</i> ", interdisciplinary workshop, aimed at exploring how the discovery of Hyperbolic Geometry has influenced other areas of knowledge, University of Warwick
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Qualifications and Affiliations

Postgraduate Award in teaching and learning in higher education (**University of Warwick**)
I am an Associate Fellow of the **Higher Education Academy**
I am a member of the **EPSRC** (Engineering and Physical Sciences Research Council) **Early Career Forum**

Languages

Italian: native
English: fluent
French: intermediate

Spanish: intermediate
Japanese: basic

Extra-curricular activities

2015/2016 Representative for hourly paid teachers, department of Mathematics, University of Warwick.

2013/2014 Postgraduate ambassador at the University of Warwick, liaising with Graduate school and postgraduates in my Department.
Postgraduate officer in the executive committee of Catholic Society, University of Warwick.