

# ANASTASIA IGNATIEVA

Department of Statistics, University of Oxford

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## POSITIONS

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**University of Oxford**

October 2021 – present

Postdoctoral researcher at the Department of Statistics, with Simon Myers

## RESEARCH VISITS

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**University of Bonn**

July – August 2022

Participating in the *Stochastic modelling in the life sciences* Junior Trimester Programme, at the Hausdorff Research Institute for Mathematics

**University of California, Berkeley**

April – June 2022

Research visit hosted by Yun Song (funded by the Cecil King Travel Scholarship)

## EDUCATION

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**PhD**, University of Warwick (Oxford-Warwick Statistics Programme CDT) 2018 – 2021

*Population genetics models for viral data with recombination*, supervised by Paul Jenkins and Jotun Hein.

**MSc Statistics and Operational Research**, University of Edinburgh 2016 – 2017

Distinction, top of class.

**B.A. (Mod) Mathematics**, Trinity College Dublin 2008 – 2013

First class honours.

## PUBLICATIONS AND PREPRINTS

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Recoverability of ancestral recombination graph topologies

E. Hayman, A. Ignatieva, J. Hein (2021). *bioRxiv*, doi.org/10.1101/2021.10.10.463724

Ongoing recombination in SARS-CoV-2 revealed through genealogical reconstruction

A. Ignatieva, J. Hein, P. A. Jenkins (2022). *Molecular Biology and Evolution*, 39(2): msac028

KwARG: Parsimonious reconstruction of ancestral recombination graphs with recurrent mutation

A. Ignatieva, R. B. Lyngsø, P. A. Jenkins, J. Hein (2021). *Bioinformatics*, 37(19): 3277-3284.

A characterisation of the reconstructed birth-death process through time rescaling

A. Ignatieva, J. Hein, P. A. Jenkins (2020). *Theoretical Population Biology*, 134: 61-76.

Point process models for quasi-periodic volcanic earthquakes

A. Ignatieva, A. F. Bell, B. J. Worton (2018). *Statistics in Volcanology*, 4: 1-27.

## CONFERENCE TALKS AND POSTER PRESENTATIONS

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[Plenary talk] Research Students' Conference in Population Genetics (*upcoming*) June 2022

*University of Warwick*

[Poster] Probabilistic Modeling in Genomics

March 2022

*University of Oxford*

[Talk] Mathematical Population Genetics mini-conference <i>Cramer Society / Swedish Statistician Society</i>	March 2022
[Talk] 55 <sup>th</sup> Population Genetics Group Meeting <i>Earlham Institute / John Innes Centre / University of East Anglia (online)</i>	January 2022
[Talk] SIAM-IMA Applied Mathematics Conference <i>University of Warwick (online)</i>	July 2021
[Poster] SMBEv2021 <i>Society for Molecular Biology and Evolution (online)</i>	July 2021
[Talk] Probabilistic Modeling in Genomics <i>Cold Spring Harbor Laboratory (online)</i>	April 2021
[Talk] 54 <sup>th</sup> Population Genetics Group Meeting <i>University of Liverpool (online)</i>	January 2021
[Poster] Workshop on Models and Inference in Population Genetics <i>University of Warwick</i>	December 2019
[Poster] Royal Statistical Society International Conference <i>Belfast</i>	September 2019
[Talk + poster] Research Students' Conference in Probability and Statistics <b>Prize for best poster</b> <i>University of Exeter</i>	June 2019

## SEMINARS AND INFORMAL TALKS

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Cold Spring Harbor Laboratory	May 2022
University of California, Berkeley	May 2022
University of California, Davis	April 2022
University of Oxford	
<i>Department of Statistics Research Collaboration Day</i>	April 2022
<i>Oxford Computational Statistics and Machine Learning (OxCSML) Seminar</i>	January 2022
University of Warwick	
<i>Applied Probability Seminar</i>	November 2021
<i>Young Researchers' Meeting</i>	January 2020, January 2021
<i>Data Science group meeting</i>	December 2020
<i>Statistics, Probability, Analysis and Applied Mathematics Seminar</i>	November 2020
University of Newcastle	November 2021
TU Berlin	
<i>Oberseminar (research seminar) Stochastic Processes in Biology</i>	May 2021

## GRANTS AND SCHOLARSHIPS

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<b>Cecil King Travel Scholarship</b>	2021
Competitive award by the London Mathematical Society and the Cecil King Foundation, to fund a research visit to the University of California, Berkeley.	

<b>LMS Postgraduate Research Conference Grant (Scheme 8)</b>	2020
Awarded by the London Mathematical Society for organising the Research Students' Conference in Population Genetics in July 2021.	
<b>University of Edinburgh UK/EU Masters Scholarship</b>	2016
Awarded on the basis of academic excellence.	

## AWARDS AND PRIZES

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<b>University of Edinburgh School of Mathematics Prize</b>	2017
<b>Trinity College Dean of Students' Roll of Honour</b>	2012, 2013
<b>Trinity College Entrance Exhibition</b>	2008

## ACADEMIC SERVICE

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<b>Research Students' Conference in Population Genetics</b>	July 2021
Organised a 3-day conference (held in person at Warwick), aimed at research students working in mathematical population genetics and related fields.	
<b>Young Researchers' Meeting organiser</b>	2020/21
Co-organised the Warwick Department of Statistics weekly seminar for early-career researchers.	
<b>Referee for:</b> Theoretical Population Biology, Genome Biology and Evolution, PLOS Computational Biology, Methods in Ecology and Evolution, RECOMB 2022	

## EMPLOYMENT AND PROFESSIONAL QUALIFICATIONS

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<b>Ministry of Justice, London</b>	2017 – 2018
Operational Research Analyst (Fast Stream)	
<b>Grant Thornton, Cambridge</b>	2013 – 2016
Audit Associate, <b>ACA</b> (fully qualified, two exam performance prizes)	

## OUTREACH AND OTHER ACTIVITIES

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<b>Warwick Statistics Welfare, Equality, Diversity and Inclusion committee</b>	2020/21
<b>Pint of Science (Coventry 2020) organising team</b>	January – September 2020
<b>Oxford Maths Outreach Ambassador</b>	2018/19

## TEACHING

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<b>Department of Statistics, University of Warwick</b>	2020/21
Graduate teaching assistant, tutorials for <i>Stochastic Processes</i> (second year undergraduate course).	
<b>School of Life Sciences, University of Warwick</b>	2020/21
Graduate teaching assistant, tutorials for <i>Statistics for Scientists</i> and <i>Data Science</i> (PhD level modules).	

## PROFESSIONAL MEMBERSHIPS

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<b>Society for Molecular Biology and Evolution</b>	2021
<b>London Mathematical Society</b>	2020