

# NADEJDA BLAGORODNOVA

## Research positions

- 2018 – now **VENI Postdoctoral fellow**  
Radboud University, Nijmegen, The Netherlands
- 2015 – 2018 **Postdoctoral scholar**  
California Institute of Technology, Pasadena, CA, USA
- 2012 – 2015 **Ph.D., student in Astrophysics**  
Institute of Astronomy, Cambridge, UK

## Industry positions

- 2009 – 2012 **Scientific Software Test Manager for the Gaia ESA mission**  
Faculty of Physics and Chemistry, Barcelona, Spain
- 2007 – 2009 **Consultant in information technologies**  
Synergic Partners, S.L., Barcelona, Spain

## Education

- 2012 – 2015 **Ph.D., Astrophysics**  
Institute of Astronomy, Cambridge, UK
- 2009 – 2011 **M.S., Astrophysics, particle physics and cosmology**  
Faculty of Physics and Chemistry, Barcelona, Spain
- 2008 **M.S. in Information Technologies**  
Barcelona School of Informatics, Barcelona, Spain
- 2003 – 2008 **B.A., Computer Science**  
Barcelona School of Informatics, Barcelona, Spain

## Prize Fellowships and awards

- 2018 **Innovational Research Incentives Scheme VENI fellowship**
- 2015 **Finnish Centre for Astronomy (FINCA) fellowship** (declined)
- 2015 European Science Foundation grants for exchange visits
- 2012 **Marie Curie Early Stage Researcher fellowship**  
Gaia Research for European Astronomy Training – Initial Training Network (GREAT ITN)
- 2001 National Chemistry Olympiad, Gijon, Spain - silver tier

## Selected talks - conferences and workshops

- Jul. 2020 Talk: EAS virtual meeting, Leiden, Netherlands
- Oct. 2019 Invited talk: Royal Astronomical Society, London, UK
- Sep. 2019 Talk: ESO workshop "The extragalactic explosive Universe", Garching, Germany
- Jun 2019 Talk: European Week of Astronomy and Space Science, Lyon, France
- Feb. 2019 Invited Talk: Cosmic Beacons workshop, Sexten, Italy
- Sep. 2018 Invited Talk: Caltech-Swinburne data science workshop, Pasadena, USA
- Sep. 2018 Talk: Keck Science Meeting, Pasadena, USA
- Jul. 2017 Invited talk: Unveiling the Physics Behind Extreme AGN Variability, ST. Thomas, US. Virgin Islands
- July 2017 Talk: European Week of Astronomy and Space Science, Prague, Czech Republic
- Jan. 2017 Talk: 229<sup>th</sup> American Astronomical Society meeting, Grapevine, USA
- Nov. 2015 Talk: Jerusalem TDE Workshop
- Nov. 2015 Talk: Gaia Science Alerts Workshop, Liverpool, UK
- Sep. 2014 Talk: Gaia Science Alerts Workshop, Warsaw, Poland
- Aug. 2014 Talk: CAASTRO Annual Scientific Conference, Coffs Harbour, Australia
- Jul. 2014 Talk: European Week of Astronomy and Space Science, Geneva, Switzerland
- Feb. 2014 Talk: Gaia-PESSTO GREAT ESF Workshop, Belfast, UK
- Sep. 2013 Invited talk: Workshop on High Energy Tidal Disruption Events, Favignana, Italy
- Jul. 2012 Talk: European Week of Astronomy and Space Science, Rome, Italy

## Selected colloquium and seminars

May 2020	Colloquium: Astronomical Institute Anton Pannekoek, Amsterdam, The Netherlands (virtual)
Oct. 2019	Colloquium: Charles University, Prague, CZ
Oct. 2019	Colloquium: UCL, London, UK
May 2018	Seminar: SRON, Utrecht, The Netherlands
Jan. 2018	Colloquium: Radboud University, Nijmegen, The Netherlands
Jan. 2018	Seminar: Technion – Israel Institute of Technology, Haifa, Israel
Jul. 2017	Seminar: Faculty of Physics and Chemistry, University of Barcelona, Spain
Jun. 2017	Seminar: Liverpool John Moores University, Liverpool, UK
Jun. 2017	Seminar: Caltech, Pasadena, USA
Feb. 2017	Invited seminar: University of Washington, Seattle, USA
Nov. 2016	Invited seminar: San Diego State University, San Diego, USA
Jun. 2016	Seminar: Faculty of Physics and Chemistry, University of Barcelona, Spain
Apr. 2016	Seminar: Institute of Astronomy, Cambridge, UK
Feb. 2015	Seminar: Institute of Astronomy, Cambridge, UK
Jan. 2015	Seminar: Tuorla Observatory, University of Turku, Finland
Nov. 2014	Invited colloquium: University of Warwick, Coventry, UK
May 2014	Seminar: Astronomical Observatory, University of Warsaw, Warsaw, Poland
Aug. 2012	Seminar: Faculty of Physics and Chemistry, University of Barcelona, Barcelona, Spain

## Press releases

Sep. 2016	“New observations of rare cosmic explosion provide hints about stars' companionship”, for Blagorodnova et. al. 2017, GROWTH press
Sep. 2014	“Gaia discovers its first supernova”, ESA

## Awarded observing time

2019	<b>Keck</b> – ½ night (PI)
2018	<b>LCO</b> – 42 hours (PI)
2018	<b>Keck</b> – 3 nights (PI)
2017	<b>HST GO Cycle 25</b> – 70 orbits (co-I)
2017	<b>Keck</b> – 1.25 nights (PI) + 1 night (co-I)
2016	<b>HST DDT Cycle 23</b> – 5 orbits (co-I)
2016	<b>Keck</b> – 1 night (PI) + 0.5 nights (co-I)
2016	<b>P200</b> – 3 nights (PI)
2016	<b>P60</b> – 35 h (PI)
2016	<b>P48</b> – 24 h (PI)
2016	<b>VLT</b> – 5h (co-I)
2014	<b>Liverpool Telescope</b> – 92 h (co-I)

## Observing experience

<b>Keck 1 and Keck 2</b>	26 nights. Instruments: LRIS, DEIMOS, NIRC2, NIRSPEC, ESI, OSIRIS
<b>P200</b>	10 nights. Instruments: DBSP, WIRC
<b>WHT</b>	3 nights. Instruments: ACAM
<b>NTT</b>	16 nights. Instruments: EFOSC2, SOFI
<b>NOT</b>	3 nights. Scheduling of Target of Opportunity observations
<b>Copernico Telescope (1.8m)</b>	5 nights. Instruments EFOSC2

## Supervision, teaching and mentoring of students

Nov. 2018 – July 2020	Mentoring of an undergraduate student from Yale-NUS College in Singapore
Jun 2018	Main organizer and teacher of the ZTF Undergraduate Summer School, Caltech
Jun – Sep 2018	Supervision of an undergraduate research project within the SURF project at Caltech
Jul – Sep. 2017	Supervision of an undergraduate research project within the GROWTH programme, Caltech
Oct. 2016 – Sep. 2018	Mentoring a graduate student in a junior technical position, Caltech
2016, 2017	Teaching of Astronomy 101 (part), Caltech
2016	Teaching assistant for the iPTF summer school, Caltech
2013	Supervision of course “Stellar structure and Evolution”, University of Cambridge
2012	Co-supervision of a master’s degree project, University of Barcelona

## Complementary education

2018	Storytelling for scientists, Caltech, USA
2017	35th Jerusalem Winter School in Theoretical Physics, Jerusalem, Israel
2013	GREAT Astrostatistics School 2013, Alicante, Spain
2012	GREAT-ITN on Fundamental Cosmic Distance Ladder and Transient Sky, Teramo, Italy

## Membership of large and medium-size collaborations

Since 2019	IAU junior member
Since 2018	Black GEM collaboration
Since 2016	Global Relay of Observatories Watching Transients Happen (GROWTH)
Since 2015	Intermediate Palomar Transient Factory (iPTF) and Zwicky Transient Facility collaboration (ZTF)
2012 – 2015	Public Spectroscopic Survey for Transient Objects (PESSTO)
Since 2009	Data Processing and Analysis Consortium (DPAC) for Gaia ESA mission

## Organization of conferences, meetings and seminars

Jul. 2020	SOC – EAS Symposia “Common-envelope systems: progenitors, mergers and survivors”
2019 – 2020	Radboud University Astrophysics colloquium co-organizer
Jun. 2019	SOC – EAS Symposia on tidal disruption events and ZTF, Lyon, France
Jun. 2018	SOC/LOC – “ZTF Undergraduate Institute”, Caltech, Pasadena, USA
Sep. 2017	SOC/LOC - “The Dynamic IR sky”, workshop, Caltech, Pasadena, USA
May 2017	LOC - Pasadena Astronomy Postdoc Retreat, Lake Arrowhead, USA
2016 – 2017	Organizer - Caltech seminar series organizer (Tea Talks), Caltech, USA
Jul. 2016	LOC - GROWTH annual meeting, Pasadena, USA
Sep. 2015	LOC- Sharp Eyes on European Skies, Cambridge, USA
Sep. 2014	SOC- 5 <sup>th</sup> Gaia Science Alerts Workshop, Warsaw, Poland
Jun. 2013	SOC - GREAT Astrostatistics School 2013, Alicante, Spain

## Outreach activities

2018 – 2019	Regular outreach activities at Radboud University, Nijmegen, The Netherlands
2017	Speaker for Astronomy on tap
2012 – 2015	Support to local outreach events, Institute of Astronomy, Cambridge, UK
2014	Gaia Outreach event, Barcelona, Spain
2014	Gaia LIVE outreach talk in an elementary school, Cambridge, UK
2014	Open day in the Institute of Astronomy – Gaia outreach
2013	Stargazing live event at the Institute of Astronomy, Cambridge, UK

## Software

<b>nirc2red</b>	Photometric data reduction pipeline for the NIRC2 instrument on Keck (author).
<b>rcred</b>	Photometric data reduction pipeline for the Rainbow Camera instrument, part of the SEDM (Spectral Energy Distribution Machine), operating on the 60-inch telescope at Palomar (author).
<b>GaiaPython</b>	Software module to filter and visualize the environment of Gaia transient events (author).
<b>GSTEC</b>	Gaia Spectrophotometry Transient Event Classifier – Software for classification of transient and variable objects using Gaia low-resolution spectroscopy (author).
<b>IDT</b>	Initial Data Treatment. Software for the testing science requirements of the initial data reduction module for Gaia data (contributor).
<b>BBFit</b>	Python MCMC for fitting of different models of emission (black-body, power-law, disk...) to photometric data.