

# Etienne BONNASSIEUX

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## ACTIVE INTERNATIONAL COLLABORATIONS

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FEB 2022 PRESENT	<b>DFG Research Unit: “Relativistic Jets in Active Galaxies”</b> Specifically worked on the project to study “Large-Scale Blazar Jets: Clues on High-Energy Emission from Low-Frequency Radio Observations”.
OCT 2018 PRESENT	<b>LOFAR-IT</b> Collaboration working to meet the requirements of the Italian LOFAR community.
OCT 2018 PRESENT	<b>DRANOEL Working Group</b> Collaboration focusing on the study of galaxy clusters & radio relics.
OCT 2017 PRESENT	<b>NenuFAR</b> French low- $\nu$ extension of LOFAR; I head its “Cluster Filaments & Cosmic Magnetism” early key science project ES09.
OCT 2017 PRESENT	<b>LOFAR-VLBI</b> Working group tasked with developing the capabilities of international LOFAR.
OCT 2015 PRESENT	<b>LOFAR Surveys KSP</b> Working group tasked with creating large-scale surveys of the LOFAR radio sky.

## EDUCATION & QUALIFICATIONS

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JAN 2020	<b>Obtained CNU Qualification</b> Obtained CNU Qualification under Section 34, which makes me eligible to hold lecturer positions in French universities.
2015-2018	<b>PhD in Astrophysics</b> - <i>Observatoire de Paris &amp; Rhodes University</i> Supervisors: Philippe Zarka, Oleg Smirnov, Cyril Tasse “Statistical Analysis of the Radio-Interferometric Measurement Equation, a derived adaptive weighting scheme, and applications to LOFAR-VLBI observation of the Extended Groth Strip” Partnership: LESIA at the Observatoire de Paris (ED127) & RATT-RU, SKA-SA
2013-2015	<b>M1 &amp; M2R Astronomie, Astrophysique et Ingénierie Spatiale</b> Equivalent to Msc. I graduated with the Astronomy & Astrophysics program. Partnership : Observatoire de Paris, UPMC, Diderot, Orsay, ENS Ulm
2009-2013	<b>Bsc (2:2, Hons) in Astrophysics</b> - <i>University of Edinburgh</i> Bachelors of Science, graduated with Honours.
2008-2009	<b>IB Diploma</b> - <i>Bahrain School</i>

## RESEARCH POSITIONS

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FEB 2022 PRESENT	Post-doctoral Fellowship studying relativistic blazar jets at low frequencies at the Julius-Maximilians-Universität in Würzburg, Germany, under the supervision of Matthias Kadler as part of a joint DFG grant with the University of Hamburg.
OCT 2018 FEB 2022	Post-doctoral Fellowship studying galactic cluster science at low frequencies at the University of Bologna, Italy, under the supervision of Annalisa Bonafede as part of the DRANOEL ERC grant.

## TEACHING & SCIENTIFIC OUTREACH

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JUN 2019	<b>Lectured at the First Italian LOFAR School</b> Taught a workshop on using modern direction-dependent calibration & imaging suites DDF and killMS to participants. Helped tutor in the courses of colleagues.
SEP 2017 JUL 2018	<b>Tutored in the Paris Observatory DU-LU course</b> Supervised four students as part of an online course, usually teachers or amateur scientists in the workforce.
SEP 2015 JUL 2016	Of my six students, four successfully carried on to other programs in the DU; two dropped during the year for personal reasons.
SEP 2017 SEP 2016	<b>Lectured for NASSP</b> Interferometry course: two 1-hour lectures on visibilities, UV-plane, PSF, and ZVC theorem. Course was aimed at honours astrophysics students at UCT. As above, but aimed at masters astrophysics students at UCT: content was at a higher level. This also entailed writing and marking a homework question.
SEP 2017	<b>Wrote and organised a pyrap tutorial during 3GC4</b> Wrote an <a href="#">ipython notebook</a> tutorial on pyrap, a python library. Easily converted into scripts, it has been a very popular tutorial with colleagues over the years.
SEP 2017	<b>Rewrote “Visibility Space” chapter of <i>Fundamentals of Interferometry</i></b> This is an online coursebook written in multiple ipython notebooks, fruit of years of labour from many contributors. Rewrote Julien Girard’s work. <a href="#">Link here</a> .
JAN 2017 APR 2017	<b>Lectured Physics 101</b> Introductory undergraduate course in basic mechanics, aimed non-physicist undergraduates. Of 60-odd students, 15 were also in my tutorial group.
SEP 2016 JUL 2015	<b>Paris Observatory “Parrainage”</b> Paris Observatory’s outreach program, organised by Alain Doressoundiram. I helped teachers (primary-school, middle-school) organise scientific demonstrations