

CV - Aleksandar Shulevski

Contact

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Personal information

Date of birth: 11. 12. 1978
Place of birth: Bitola, Republic of Macedonia
Citizenship: Dutch
Languages:
 Macedonian (native speaker)
 English (advanced, TOEFL score 660 paper based)
 Dutch (conversational, NT-2)

Education

- 10/2010 - 02/2015
PhD in Astronomy
Kapteyn Institute, University of Groningen
the Netherlands.
Thesis title:
 AGN relics in the radio sky
 A LOFAR look into spectral aging and AGN duty cycles
Promotor: Prof. Raffaella Morganti.
- 09/2008 - 09/2010
MSc. in Astronomy
Leiden Observatory, Leiden University
the Netherlands.
Major project:
 LOFAR Imaging and Analysis of the 3C61.1
 Radio Source and its Vicinity.
Advisor: Prof. Huub Rottgering.
- 09/2007 - 09/2008
BSc. in Astronomy
Leiden Observatory, Leiden University
the Netherlands.
- 10/1997 - 04/2003
Diploma in Electrical Engineering
(electronics and telecommunications track)
Faculty of Electrical Engineering,
St. Cyril and Methodius University
Skopje, Republic of Macedonia.
(Diploma is a 4.5 year study programme,
equivalent to a Bologna process MSc.)

Training and employment

- 03/2018 - present
Research associate
Anton Pannekoek Institute for Astronomy
University of Amsterdam, The Netherlands
- 03/2015 - 02/2018
LOFAR telescope scientist
ASTRON, The Netherlands
- 11/2011 - 01/2012 and 11/2012 - 01/2013
Teaching assistant, Applied Signal Processing.
- 04/2004 - 08/2007
(Senior) software engineer at "Intersoft Konsalting"
an IT company based in Bitola, Republic of Macedonia.
Engaged in developing enterprise integration solutions
for the telecom / healthcare market.

Research Interests

- Characterization of AGN radio relics and their duty cycles.
- Radio transients, especially at low frequencies.
- Triggering of AGN activity by galaxy cluster merger shocks.
- Calibration and imaging of low frequency interferometric radio observations.
- Low dispersion interstellar communication (in the context of SETI).

Successful Observing Proposals

03/2013

Co-I. Gas and restarted nuclear activity:
the first LOFAR candidate to explore!

Morganti (PI) et al., WSRT proposal ID S13A006, 12 hours.

10/2013

PI. Constraining the duty cycle of the cluster radio galaxy 4C 35.06.

Shulevski et al. LOFAR DDT proposal ID DDT0006, 6 hours.

11/2012

PI. How exactly does B2 0258+35 accrete its HI?

Shulevski et al. EVN proposal ID ES070, 15 hours.

06/2011

PI. A possible radio relic in an HI-rich radio galaxy.

Shulevski et al. WSRT proposal ID R11B021, 13 hours.

Talks, Schools and Workshops

Contributed talk
Dutch astronomers conference - NAC
Nijmegen, 05/2017

Contributed talk
Astrolunch
ASTRON, 05/2017

Contributed talk
AARTFAAC Brainstorm meeting
UvA, Amsterdam, 01/2017

Contributed talk
Astrolunch
ASTRON, 10/2016

Contributed talk
LOFAR surveys workshop
Bologna, Italy, 09/2016

Invited talk
4-th LOFAR data processing school
ASTRON, 09/2016

Invited talk
LOFAR workshop
Krakow, Poland, 06/2016

Contributed talk
Nearby AGN workshop, 01/2016
Cambridge, UK

Contributed talk
Science at low frequencies, 12/2015
Albuquerque, USA

Contributed talk
LOFAR science meeting
The Netherlands, 06/2015

Contributed talk
EWASS 2014
Geneva, Switzerland, 30/06/2014

Invited talk
Student's day
ASTRON, the Netherlands, 06/2014

Contributed talk
Dutch astronomers conference - NAC
Noordwijkerhout, the Netherlands, 19-21/05/2014

Contributed talk
The Radio Universe @ Ger's (wave)length
Symposium in honor of Ger de Bruyn
Groningen, the Netherlands, 11/2013.

Poster presentation and poster talk
The triggering mechanisms for AGN
Lorentz center workshop
Leiden, the Netherlands, 07/2013.

Invited talk
Roger Blanford symposium
Groningen, the Netherlands, 11/2012.

Contributed talk
Seyfert Nuclei conference
Bonn, Germany, 11/2012.

Contributed talk
 European Young Astronomers Conference
 Puschino, Russia, 09/2012.

Contributed talk
 LOFAR calibration and imaging workshop
 Munich, Germany, 10/2012.

LOFAR Imaging workshop
 Meudon observatory
 Paris, France, 02/2012.

European Radio Interferometry School (ERIS)
 Rimini, Italy, 09/2011.

Poster presentations
 Dutch astronomy meetings
 NAC, 05/2010, 2011 and 2012.

Poster presentation
 Dutch LOFAR Science meeting
 Dalfsen, the Netherlands, 09/2011.

Lunch talk
 Kapteyn Institute, Groningen, the Netherlands, 06/2011.

NOVA school
 ASTRON, Dwingeloo, the Netherlands, 10/2010.

LOFAR calibration and imaging workshops
 Leiden and ASTRON, the Netherlands, 2009 and 2010.

Computing Experience

Operating systems:
 Linux, OS X, DOS.

Radio astronomy data analysis and visualization:
 AIPS, CASA, Miriad, BBS (LOFAR), DS9, Kvis, Pyrap,
 Astropy, Matplotlib, APLpy

Programming:
 Java (fluent), MATLAB (proficient), IDL (basic)
 C++ (proficient), Python (proficient), HTML, XML
 CSS (fluent), TeX (fluent), SQL (fluent).

Other:
 bash scripting (average), TIBCO framework (proficient)
 numerical computing algorithms for orbit mechanics,
 analysis of rounding errors
 Wavelet applications in image processing.

Academic Service

09/2016
 LOC, 4-th LOFAR data processing school, ASTRON

05/2011 - 05/2013
 Organized the journal club at the Kapteyn Institute
 Discussion of current papers of interest with a
 broad range of topics, in line with the
 research interests of the institute.

10-2009 - 10/2010
 Maintenance of the LOFAR Surveys web pages
 at the Leiden observatory.

Outreach

11/2010 - present

- Public evenings at the Gratama telescope of the Blaauw observatory at Groningen University. Demonstrating practical astronomy to the general public.
- Astrophotography with a small telescope.
- Writing yearly popular science articles for an astronomical almanac published in the Republic of Macedonia.

References

Prof. Dr. Raffaella Morganti
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ASTRON
Oude Hoogeveensedijk 4, 7991PD
Dwingeloo, The Netherlands

Prof. Dr. Peter Barthel
pdb@astro.rug.nl
Kapteyn Institute
Groningen University
Landleven 12, 9747AD
Groningen, The Netherlands

Dr. Roberto Pizzo
pizzo@astron.nl
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