CURRICULUM VITAE DAVOR KRAJNOVIĆ

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EMPLOYMENT HISTORY

2019 -	Senior Staff Scientists, Leibniz-Institut für Astrophysik (AIP), Potsdam, Germany
2016 - 2019	Tenure Track, Leibniz-Institut für Astrophysik (AIP), Potsdam, Germany
2012 - 2015	Postdoctoral Associate, Leibniz-Institut für Astrophysik (AIP), Potsdam, Germany
2009 - 2012	ESO Fellow, ESO, Garching, Germany
2007 - 2009	Extra-ordinary Junior Research Fellow, Queen's College, Oxford, UK
2004 - 2009	Post-doctoral researcher, Oxford Astrophysics, University of Oxford, Oxford, UK

EDUCATION

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2000-2004	Leiden Observatory, Leiden University, The Netherlands
	PhD in Astronomy, 12 October 2004
	Thesis title: 'On the nature of early-type galaxies'
	Supervisors: Prof. P.T. de Zeeuw, Dr. Walter Jaffe
1994 – 1999	Department of Physics, Faculty of Science, University of Zagreb, Croatia
	Graduated 12 November 1999
	Diploma Thesis: 'Ultra High Energy Cosmic Ray and Greisen-Zatsepin-Kuzmin Cutoff'
	Supervisor: Dr. Mladen Martinis, Institute Rudjer Bošković, Zagreb

RESEARCH ACTIVITIES AND INTERESTS

- Structure, kinematics and dynamical modelling of galaxies
- Supermassive black holes and their co-evolution with galaxies
- Stellar populations and the role of dark matter in galaxies
- Evolution of stellar angular momentum

TEACHING

2020 -	Lecturer at Potsdam University ("Galaxies and Cosmology", Master course - Module
	Galaxies)
2015 - 2016	Potsdam University ("Galaxies and Cosmology", Master course - covering topics of stellar
	kinematics, dynamics and stellar populations)
2010 - 2014	Lecturer at University of Zagreb ("Galactic Astronomy", graduate course)
2008 - 2009	Tutor for Queen's and Christ Church Colleges ("Stellar Evolution and Cosmology", un-
	dergraduate course)
2007 - 2008	Tutor for Queen's College ("Stellar Evolution and Cosmology", undergraduate course)
2005 - 2007	Tutor for Christ Church College ("Stellar Evolution and Cosmology", undergraduate co-
	urse)
2001 - 2003	Teaching assistant at University of Leiden ("Active Galaxies", undergraduate course)
1999 - 2000	Tutoring in mathematics and physics of high school students

SUPERVISION OF STUDENTS

2017 - 2018 2016 2015 - 2019 2013 - 2014 2013	Master supervisor (Kegeler): Hidden structure of early-type galaxies Bachelor supervisor (Vilović): Fundamental Plane of galaxies in the Abell 1689 cluster PhD supervisor (Thater): The interplay of massive black holes and their host galaxies Supervisor on MSc (Thater): Modelling of IFU observations of NGC4414 Internship supervisor (Johnson): Analysis of the velocity dispersion radial profiles of
2010 - 2013	early-type galaxies Co-supervisor on PhD (Lagerholm) (Thesis not completed)
2009	Supervisor on Mphys (Bourne): Galaxy kinematics for NGC4414
2008	Supervisor on MSc (Caris): Probing supermassive black holes in massive galaxies with cold gas kinematics
2008	Supervisor on Mphys (Barcely): Origin of nuclear disks in ATLAS ^{3D} sample
2007	Supervisor on BA (Jackson): Methods for estimating masses of central black holes
2006	Supervisor on Mphys (Das): Kinemetry on SAURON velocity dispersion maps
2006	Co-supervisor on Mphys (Tulip): Mass Models of Boxy Bulges in Spiral Galaxies
2005 - 2008	Co-supervisor on PhD (Maier): The Cores of Early-Type galaxies

EXAMINATIONS

2020	PhD Thesis External Examiner (Smith): Weighing supermassive black holes with mole-
	cular gas kinematics, University of Oxford, UK
2019	PhD Thesis Examiner (Thater): The interplay of massive black holes and their host
	galaxies, University of Potsdam, Germany
2018	PhD Thesis External Examiner (Hušak): Doprinos Ruđera Boškovića u određivanju ele-
	menata Sunčeve rotacije na osnovi opažanja pjega, University of Zagreb, Croatia
2018	Master Thesis External Examiner (Fiteni): The impact of bars on the stellar density
	profiles of disk galaxies, University of Malta, Malta
2015	PhD Examination Committee member (Oliva-Altamirano): Brightest Cluster Galaxies
	As Probes of Galaxy Formation, Swinburne University of Technology, Australia
2009	Junior Assessor of Mphys Thesis at Oxford University
2008	Junior Assessor of Mphys Thesis at Oxford University

MEMBERSHIP IN SCIENTIFIC COLLABORATIONS AND SOCIETIES

2016 -	MOSAIC Consortium
	(2021-) coordinator of SWG3: "Mass assembly of galaxies through cosmic times"
2016 -	NIFS Large Program for measuring masses of supermassive black holes
2014-	MUSE Most Massive Galaxies (M3G) - (co-Principal Investigator)
2012 -	Mass Assembly of early-Type GaLAxies with their fine Structures - MATLAS
2010 -	MUSE GTO Science team
2009 -	International Astronomical Union
2008 -	Royal Astronomical Society
2007 - 2014	$ATLAS^{3D}$ Survey (co-Principal Investigator)
2005 - 2009	Astrophysics Initiative in Dalmatia
2003 -	SAURON Survey

COMMUNITY AND INSTITUTIONAL SERVICES

- Member of AIP Internal Science Committee, since 2019)
- Member of AIP LBT Time Allocating Committee, since 2017)
- Member of ESO Observing Programmes Committee, Panel B (Periods 98, 99, 100)
- Graduate and Master Student Advisor, AIP and University of Potsdam, Germany
- Member of a PhD Selection Committee (2015, AIP, Germany)
- Refereeing for astrophysical journals and funding agencies
- Refereeing of observational proposals for GEMINI Observatory

GRANTS			
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2020	Royal Astronomical Society Undergraduate Bursary: £1200
2017	Deutsche Forschungsgemeinschaft (DFG) grant: €195550
2015	Royal Astronomical Society Undergraduate Bursary: £1200
2015	Deutsche Forschungsgemeinschaft (DFG) grant: €121800
2014	German Space Agency (DLR) grant for analysis of HST Cycle 21 observations: €80000
2013	NASA grant for analysis of HST Cycle 21 observations: \$91,433 (granted to the US part of the team)
2012	Lorentz Centre Grant for a workshop - Assembly and Star Formation of Early-Type Galaxies in 3D: \leq 3500
2009	Royal Astronomical Society Undergraduate Bursary: £1700

AWARDS

2013 Group Award of the Royal Astronomical Society, as a member of the SAURON team

ORGANISATION OF MEETINGS AND CONFERENCES

2019	Multi-Spin Galaxies (Asiago Astrophysical Observatory, Asiago) - Member of SOC
2014	National Astronomy Meeting (Portsmouth) - Parallel Session: Interplay of Black Holes
	and Host Galaxies (Chair)
2010	Central Massive Objects workshop at ESO (LOC member)
2009 - 2012	Wine & Cheese Seminars at ESO (monthly)
2008 - 2014	ATLAS ^{3D} Team bi-annual meetings
2007	International Astronomical Union Symposium 245: Formation and Evolution of Galaxy
	bulges (LOC member)
2006 - 2007	Split International Winter Schools, SIWA (member of the selection committee)
2004 - 2009	Galaxies group meetings at Oxford (weekly)
1999 - 2000	XV International Conference for Physics Students 2000, Zadar (member of the organising
	committee)

OBSERVING

PI and Co-I on a number of proposals for optical and near-infrared spectroscopy with long-slit and integral-field instruments on 4 - 8m telescopes, as well as on millimetre, radio observations, and space based imaging. Recent projects include (as PI or co-PI only):

- VLT (SINFONI): Does PGC046832 have the most massive central black holes measured to date? (DDT)
- VLT (MUSE): Testing the robustness of black holes mass recovery with MUSE and ALMA: the early-type galaxy NGC6958 (MUSE WFM AO SV)
- VLT (MUSE): The MUSE Most Massive Galaxies (M3G): pinning down the growth of the heaviest galaxies in the Universe (GTO Programme)
- HST (WFC3, ACS): Where cores are no more: Assessing the role of dissipation in the assembly of early-type galaxies (12 Orbits)
- VLT (SINFONI): Weighing the Most Massive Black Holes in the Nearby Universe (38 hours)
- GEMINI (NIFS): Determining the low-mass end of the local M_{BH} - σ relation (50 hours)
- WHT (SAURON): The ATLAS^{3D} Survey of early-type galaxies (38 nights)

POPULAR TALKS

Selected talks can be found on: http://www.davor.krajnovic.org/talks/index.html

- An exponential growth of observatories in 19. century
 - 1 April 2019 AIP, Potsdam (Talk)
- A ZOO of Planets
 - 16 Februar 2018 Internationale Grundschule Potsdam (Talk and event)
- Discovery of Neptune
 - 01 June, 01 July and 01 Sept 2016 AIP, Potsdam (A series of three popular 20 min talks)
- Solar Eclipse 2015
 - 20 March 2015 Kindergarten "Grasshoppers", Potsdam (Talk and event)
- Venus in Sole Visa
 - **31 May 2012** ESO (*Popular talk*)
- A Fork, A Trident and a Comb: The Hubble classification of galaxies **05 May 2011** ESO (Popular talk)
- On Pancakes and Rugby Balls
 - **18 Feb 2009** St. Edwards School, Oxford (*Popular talk*)
 - 25 Nov 2008 Queen's College Symposium (Popular talk)
- Astro pancakes
 - 21 Apr 2008 Yokohama International School (Interaction with 2nd graders)

SEMINARS and COLLOQUIA

Slides of some past seminars can be found on: http://www.davor.krajnovic.org/talks/index.html. Listed here are seminars since 2011.

- The star is not on the map: German side of the discovery of Neptune
 - 09 February 2021 DESY, Hamburg, Germany
 - 27 January 2021 DESY, Zeuthen, Germany
- Formation processes of massive galaxies
 - 16 April 2018 University of Vienna, Vienna Observatory, Vienna, Austria
- The kinematics of most massive galaxies
 - 11 Nov 2015 ESO, Santiago, Chile
- The origin of kinematically distinct cores
 - 13 Feb 2015 Macquarie University, Sydney
- Looking at the Universe in Colour: Commissioning and the first results of MUSE
 - 21 Nov 2014 University of Zagreb
- ATLAS^{3D}: Connecting early-type galaxies with spirals
 - 19 Dec 2013 University of Bologna
- What shapes early-type galaxies
 - 15 Nov 2013 Leibinz-Institut für Astrophysik Potsdam (AIP)
- Connecting early-type galaxies with spirals
 - 03 May 2013 Pontificia Universidad Católica de Chile
- Early-type galaxies in (early-)21st century
 - 03 Feb 2012 MPE, Garching
- Towards a new paradigm for early-type galaxies
 - 15 Nov 2011 University of Innsbruck
- Father Rudjer Bošković, the last natural philosopher and his legacy
 - 18 May 2011 ESO
- What are nearby early-type galaxies?
 - 16 Feb 2011 Astrophysics Research Institute, Liverpool John Moors University
 - 25 Jan 2011 Center for Astrophysics, Harvard University, Boston