

Arthur Vigan

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Groupe R&D en instrumentation

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EDUCATION

2018	<i>Habilitation à Diriger des Recherches (HDR)</i> , Aix-Marseille Université
2010	PhD Thesis, Aix-Marseille Université. Supervision : Maud Langlois & Claire Moutou
2006	Master "Optique, Vision, Signal", Université Jean Monnet, St Etienne
2006	Optical engineering degree, Institut d'Optique <i>Graduate School</i> , Orsay

CURRENT AND PREVIOUS POSITIONS

2013 – today	CRCN at CNRS, Laboratoire d'Astrophysique de Marseille
2015	<i>Operation Staff Astronomer</i> , European Southern Observatory, Chile
2012 – 2013	Postdoctoral position, Laboratoire d'Astrophysique de Marseille
2012	Invited researcher CRAL (Lyon, France) for one month
2010 – 2012	<i>Associate Research Fellow</i> , University of Exeter (UK)

RESEARCH GRANTS

2020-22	PI	INSU-CSAA : Building HiRISE	75 k€
2017	PI	ERC StG HiRISE : coupling SPHERE and CRIRES+ at the VLT	1500 k€
2017	PI	LAM : incentive funding	4 k€
2014	Co-I	CNES : postdoctoral funding for Roxanne Ligi	56 k€
2014	PI	Région PACA : ASOREX project on wavefront control	60 k€
2013	PI	LAM : manufacturing of the SLLC apodiser for SPHERE	10 k€
Regular	Co-I	Grants from French national programs	several k€/an

AWARDS AND DISTINCTIONS

2021	CNRS Bronze Medal (national award)
2014	CNRS prize for scientific excellence
2015	Research grant from the City of Marseille

INVITED SEMINARS AND PRESENTATIONS

More than 40 oral contributions in conference, workshops or seminars in various institutes. Invited seminars: ULiège, 2022 • Uppsala University, 2021 • NASA ExEP Technology Colloquium Series, 2021 • MPIA, 2020 • ETH Zürich, 2020 • Exoplanet Research Center Cambridge, 2020 • University of Göttingen, 2019 • CEA Saclay, 2019 • ESO 2018 • University of Exeter, 2017 • Caltech, 2017 • University of Valparaiso, 2015 • STScI, 2015. Invited presentations at workshops/conferences: AO4ASTRO, Marseille, 2019 • Conference "Combining HRS and HCI for exoplanet characterization", Caltech 2018

MAJOR COLLABORATIONS AND PROJECTS APOINTMENTS

2019 – today	Co-I of the SPHERE+ upgrade project
2017 – today	Associate member in the RST/CGI Science Working Group
2017 – today	PI of the ERC StG HiRISE project to couple VLT/SPHERE and VLT/CRIRES+

2016 – today	Member of the ELT/HARMONI science group
2015	Co-instrument scientist of VLT/SPHERE at ESO
2014 – today	Co-I of the SHINE survey performed in SPHERE GTO time (70 people)
2012 – today	Co-instrument scientist of the SPHERE/IRDIS instrument in SPHERE consortium
2009 – 2014	Co-I of the NACO-LP large observing program (30 people)

SUPERVISION AND TEACHING

Post-docs supervision

2021 – today	Jean Costes	Post-doc ERC. HiRISE data analysis and interpretation
2018 – 2021	Gilles Otten	Post-doc ERC. Development of the SPHERE/CRIFES+ coupling
2015 – 2017	Roxanne Ligi	Post-doc CNES. Validating Kepler exoplanet candidates with VLT/SPHERE
2014 – 2015	Graeme Salter	Post-doc ANR. Exploiting VLT/SPHERE commissioning and first-light data

PhDs supervision

2022 – 2025	Lisa Altinier	[50%]	RST/CGI data analysis and preparation
2020 – 2023	Chen Xie	[50%]	SPHERE archival data analysis for RDI
2019 – 2022	Mona El Morsy	[100%]	Developing the HiRISE prototype
2018 – 2021	Mathis Houllé	[80%]	Combining high-contrast and high spectral resolution
2016 – 2019	A.-L. Cheffot	[30%]	Development of cophasing techniques for the ELT
2012 – 2015	Alice Zurlo	[30%]	Laboratory and on-sky validation of VLT/SPHERE

Engineers

2019 – today	M. Lopez	[75%]	Final design and AIT for the HiRISE instrument
2021	A. Viret	[50%]	Final mechanical design of the HiRISE instrument
2018 – 2020	Y. Charles	[50%]	Preliminary mechanical design of the HiRISE instrument
2016 – 2019	R. Pourcelot	[50%]	Engineer apprentice. Upgrading the MITHIC high-contrast testbed

Teaching

2021 – today	Master classes on direct imaging of exoplanets, Aix-Marseille University
2015	Adaptive optics, coronagraphy and high-contrast imaging course at ESO
2015	Training on SPHERE of ESO fellows, night astronomers and Telescope Operators
2010 – 2015	Lecture on coronagraphy at Aix-Marseille University (MSc level)

COMMISSION OF TRUST

National and international level

2021	Member of a working group to define management guidelines at CNRS
2020 – 2023	Member of the CNAP French national committee. Rank B assessor of the committee
2017 – 2018	Member of the ESO Observing Programme Committee
2015	ESO SPHERE proposals reviewer and technical feasibility
Confidential	Expert for the European commission (H2020 programs)
Confidential	Expert for the Chilean National fund for scientific developments (CONICYT/FONDECYT)
Confidential	Expert for the Natural Sciences and Engineering Research Council of Canada (NSERC)
Regular	Member of PhD committees
Regular	Referee for astrophysics and optics papers

Local level

2018 – today	Member of the LAM laboratory council (CL)
2018 – today	Member of the LAM instrumentation steering committee (CPI)
2017 – today	Member of the Aix-Marseille University ERC support committee (CERCLe)
2013 – 2014	Co-representative of the exoplanet group at the LAM scientific council
2012 – 2013	Organization of the seminars at LAM
2011 – 2012	Organization of the astrophysics seminars at the University of Exeter