Email: marcin.marculewicz@gmail.com

- Strongly motivated, reliable individual
- Punctual and responsible with good interpersonal and communications skills
- Hardworking and willing to learn new things

RESEARCH INTEREST

• Supermassive black holes, Active Galactic Nuclei (AGN) physical structure and kinematics, AGN evolution and surveys, high-energy astrophysics, modelling of accretion disks, Quasars: physical structure and processes around them

EDUCATION

• University of Białystok • PhD in Physics	Poland 2016 – 2021
• Warsaw University • Master of Science in Chemistry	Poland 2013 – 2015
University of Białystok Bachelor in Chemistry	Poland 2010 – 2013

Projects

- Nature of weak emission-line quasars,: Ph.D thesis, supervisor: dr hab. Marek Nikołajuk, prof. UwB (defended: 10.2021)
- Broadband spectrum of Active Galactic Nuclei: 2018 Prof. dr hab. Bożena Czerny, Center for Theoretical Physics of the Polish Academy of Sciences
- Far-infrared bright/faint quasars: February 2020 May 2020 dr Evanthia Hatziminaoglou, European Southern Observatory

Publications

- M. Marculewicz and M. Nikolajuk "Black Hole Masses of Weak Emission Line Quasars Based on the Continuum Fit Method" The Astrophysical Journal, Volume 897, Number 2 (2020)
- M. Marculewicz and M. Nikolajuk "Models of Continuum of Weak Emission-Line Quasars", Proceedings of the Polish Astronomical Society, Volume 10, 243-247 (2020)
- Cherenkov Telescope Array Consortium "Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation", (2020)
- Cherenkov Telescope Array Consortium "Pre-construction estimates of the Cherenkov Telescope Array sensitivity to a dark matter signal from the Galactic centre", (2020)
- A. Acharyya et al. "Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout", Astroparticle Physics, 111, 35-53, (2019)
- M. Ostrowski et al. "Progress of the Cherenkov Telescope Array project in Poland", Proceedings of the Polish Astronomical Society, vol. 7, 343-348 (2018)
- M. Giedyk et al. "Photoinduced Vitamin B12-Catalysis for Deprotection of (Allyloxy)arenes", Organic Letters, 19, 10, 2670-2673, (2017)

Cherenkov Telescope Array

duty shifts, SST-1M telescope prototype in Cracow

member of the Polish consortium

Oct 2017 - Present

Gravitational waves from accretion disk

supervisor: Prof. dr hab. Tomasz Bulik, Institute of Astronomy, Warsaw

Dec 2016 - Mar 2019

Enantioselective synthesis of unnatural Amino Acids

supervisor: dr hab. Sebastian Stecko, Institute of Organic Chemistry, PAS Warsaw

Jan 2016 - Jul 2016

Catalytic properties of Vitamin B12

supervisor: Prof. dr hab. Dorota Gryko, Institute of Organic Chemistry, PAS Warsaw

Jul 2013 - Jul 2015

ATTENDANCES IN CONFERENCES, WORKSHOPS AND SCHOOLS

- August 2021: Chandra Data Science
- January 2021: 237th Meeting of the American Astronomical Society
- October 2020: Accretion 2020 at Fudan, Fudan University
- October 2020: Cherenkov telescope, Consortium General Online Meeting October 2020
- October 2020: KITP Conference, The Frontiers of Event Horizon Scale Accretion
- September 2020: La Silla Paranal Users Workshop, Optimising data exploitation, ESO online workshop
- August September 2020: Astro Hack Week workshop (I started three independent projects which are in the development phase)
- August 2020: 8th AtomDB Workshop and Advanced Spectroscopy School, hosted by the Harvard & Smithsonian Center for Astrophysics
- July 2020: Compact Objects and Energetic Phenomena in the Multi-Messenger Era, virtual mini-conference
- June September 2020: next-generation Very Large Array Science Advisory Council cycle of weekly online talks
- **September 2019**: 39th Polish Astronomical Society Assembly, Olsztyn oral contribution "Nature of weak emission-line quasars"
- August 2019: Quasars in crisis 2019, Edinburgh poster presentation "Models of continuum of weak emission-line quasars"
- July 2018 August 2018: internship in the Center for Theoretical Physics of the Polish Academy of Sciences "Broadband spectrum of Active Galactic Nuclei"
- June 2018: 34th IAP Conference: Massive black holes in evolving galaxies: from quasars to quiescence, Paris poster presentation "SED of SDSS J094533.99+100950.1 quasar"
- February 2018: 48th Saas-Fee course: Black hole formation and growth poster presentation "Models of continuum of SDSS J094533.99+100950.1 quasar"
- June 2017: Fermi Summer School 2017 workshop, organized by NASA and University of Delaware student talk "Weak emission-line quasars (WLQ)"
- September 2017, April 2018: attendance in two meetings of Consortium of Cherenkov Telescope Array, Cracow
- February 2017: the workshop of ESO (European Southern Observatory) in CAMK, Warsaw

TEACHING

- 2020: Astronomy and cosmology, lecture and laboratory, University of Białystok
- 2019: Astronomy and cosmology, lecture and laboratory, University of Białystok
- 2018: Astronomy and cosmology, lecture and laboratory, University of Białystok
- 2017: Introduction to Linux, laboratory, University of Białystok

MISCELLANEA

- 2019: "Reality of stars evolution from birth to death", oral contribution with honors, XVII Festival of science and art
- 2013 2015: Member of Chemistry Students Fulleren University of Warsaw
- 2010 2013: Member of Chemistry Students Pozyton, University of Białystok
- 2016 2020: Animator and tutor in events for kids and students in University of Białystok
- 2016 2020: Animator in events for kids and students in University of Warsaw

PROGRAMMING SKILLS

- Languages: Python, Fortran
- Python packages: Pandas, Matplotlib, Numpy, Scipy, astropy
- Unix packages, Latex, Microsoft packages