

Curriculum Vitae for Kasper Elm Heintz

- Personal data:** Full name: Kasper Elm Heintz
Date of birth: April 18, 1991
Nationality: Danish
Wife: Julie Elm Heintz
Children: Oliver Elm Heintz (b. 2016) and Alfreð Elm Heintz (b. 2020)
E-mail: keh14@hi.is
Phone: + 45 2382 4056
- Position(s):** Postdoctoral researcher,
Centre for Astrophysics and Cosmology,
Science Institute, University of Iceland

Instrument Scientist for the NOT Transient Explorer (NTE; nte.nbi.ku.dk)
- Education:** 2016 - 2019: PhD in astrophysics, University of Iceland, Iceland
(supervisor: Páll Jakobsson)
2014 - 2016: MA in astrophysics, University of Copenhagen, Denmark
(supervisor: Johan P. U. Fynbo).
2011 - 2014: BA in physics with specialization in astronomy, University of Copenhagen, Denmark (supervisor: Steen H. Hansen).
2007 - 2010: High-school, Gladsaxe Gymnasium, Denmark.
- Interests:** Kilonovae, gamma-ray bursts, quasars, damped Lyman- α absorbers, fast radio bursts
- Publications:** My publication record include 12 refereed publications as first author currently listed in the Astronomical Data System (ADS) and 31 refereed publications as co-author. These include 4 papers in *Nature*.
h-index (number of publications with more than h citations): 15
Selected publications:
- Heintz et al. 2019, A&A, 621, 20: *Cold gas in the early Universe. Survey for neutral atomic-carbon in GRB host galaxies at $1 < z < 6$ from optical afterglow spectroscopy*
- Heintz et al. 2018, MNRAS, 479, 3456: *Highly ionized metals as probes of the circumburst gas in the natal regions of gamma-ray bursts*
- Heintz et al. 2018, A&A, 615, A43: *A quasar hiding behind two dusty absorbers. Quantifying the selection bias of metal-rich, damped Ly α absorption systems*

The full publication list is attached in a separate document.
- Expertise:** Observing: I have so far observed 5 times with the Nordic Optical Telescope (NOT) and 1 time with the New Technology Telescope (NTT) at the ESO La Silla observatory. I have observed remotely several times, typically a few nights per month on duty for the various FRB, GRB or GW collaborations. This includes submitting triggers and observing with the NOT, VLT, Gemini, NTT, and the space-based *HST*.
Data analysis: I have experience with UV/optical imaging and spectroscopic data reduction and analysis, in addition to ALMA observing preparation and

data analysis. I am also co-developer of a spectroscopic reduction package (public available here: github.com/keheintz/PyReduc).

Programming languages: IDL, Python

Collaborations: - Hunting for the most exotic gamma-ray bursts with the VLT (STARGATE)
- Electromagnetic counterparts of gravitational wave sources at the Very Large Telescope (ENGRAVE)
- The extended Public ESO Spectroscopic Survey for Transient Objects (ePESSTO)
- Fast and Fortunate for FRB Follow-up (F⁴)
- The Commensal Real-time ASKAP Fast Transients Survey (CRAFT)
- Real-time, Commensal Fast Transient Surveys with the Very Large Array (*realfast*)

Teaching: 2019: Introduction to physics, Teachers Assistant, University of Iceland
2018: Spacetime physics, Teachers Assistant, University of Iceland
2018: Introduction to physics, Teachers Assistant, University of Iceland
2018: Co-supervisor on 3 first-year projects, University of Copenhagen
2015: Observational astrophysics, Teachers Assistant, University of Copenhagen

Outreach: I enjoy and make an effort to speak to the general public as often as possible, typically 5 – 10 times a year. I have also featured in a few press releases related to the work done as part of my PhD project, most notably in the Icelandic news paper Vísir (www.visir.is) and the University of Iceland press.