

Juha-Matti Huusko  
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## Curriculum vitae

1. Full name and date
  - Huusko, Juha-Matti Aleksanteri
  - ORCID: <https://orcid.org/0000-0001-8389-6436>
  - gender: man
  - This document has been made 18.4.2023.
2. Date and place of birth, nationality, current residence
  - born: 20.04.1987, Kuhmo, Finland
  - nationality: Finnish
  - current residence: Yliopistokatu 7, 80100 Joensuu
3. Education and degrees awarded ([certificates](#), [transcript of credits](#))
  - PhD, UEF, mathematics, 6/2017
  - MSc, UEF, *teacher of mathematics and physics*, 9/2013
  - BSc, UEF, 2/2011
4. Other education and training, qualifications, and skills
  - BC driving license, European
  - Excellent IT skills
    1. general programming: MATLAB
    2. webpages: HTML, CSS, Javascript, PHP, Wordpress
    3. typesetting: LaTeX, MathJax, self-made MathJax-editor
    4. visualizations: JSXGraph, TikZ, Three.js ([webpage](#))
5. Linguistic skills
  - Finnish - native
  - English - excellent
  - Swedish - mediocre
  - Bengali - mediocre
  - German – basics
6. Current position
  - university teacher, Aalto University, 10/2022-08/2023 (teaching Differential and integral calculus, 5 ECTS)
  - university teacher, **UEF** (University of Eastern Finland), 6/2022-6/2023 (UpTech, developing engineering studies)
7. Previous work experience
  - university teacher, UEF, 6/2021-5/2022 (online course materials)
  - hourly paid teacher, UEF, 9/2020-5/2021
  - university teacher, UEF, 8/2019 – 7/2020 (online course materials)
  - postdoctoral researcher, UEF, 12/2018 - 7/2019
  - IT support person, UEF, 2/2018 – 12/2018 (part time)
  - postdoctoral researcher, UEF, 7 - 9/2017
  - early-stage researcher, UEF, 10/2013 - 6/2017 (full time doctoral student, teaching 80 hours per year, funding: UEF doctoral school)
  - total full time: UEF 7years 10m, Aalto University 6m
8. Research funding as well as leadership and supervision
  - second supervisor of one doctoral student 9/2021 –
  - travel grant, 2500€, Väisälä, 2019

- UEF, doctoral school funding 10/2013-6/2017
- travel grant, 1000€, Oskar Öflunds Stiftelse, CMFT-2017 participation

#### 9. List of publications

- Pesonen, H.A., J.-M. Huusko, X. Zang, A.T. Friberg, J. Turunen and T. Setälä, Partial spectral and temporal coherence of plane-wave pulse trains in second-harmonic generation, *J. Opt.* (2021).
- Hu, G., J.-M. Huusko, J. Long, Y. Sun, Linear differential equations with solutions lying in weighted Fock spaces, *Comp. Var. Ell. Eq.*, Volume 66, 2021.
- Pesonen, H., A. Halder, J.-M. Huusko, A.T. Friberg, T. Setälä and J. Turunen, Spatial coherence effects in secondharmonic generation of scalar light fields, *Journal of Optics*, Volume 23, Number 3.
- Huusko, J.-M., T. Vesikko, On Becker's univalence criterion, *Journal of Mathematical Analysis and Applications*, 458 (1), 781-794.
- Huusko, J.-M., Methods for complex ODEs based on localization, integration and operator theory, *Publications of the UEF. Dissertations in Forestry and Natural Sciences*, 268 (2017).
- Gröhn, J., J.-M. Huusko, J. Rättyä, Linear differential equations with slowly growing solutions, *Trans. Amer. Math. Soc.* 370 (2018), 7201-7227.
- Huusko, J.-M. and M. Martin, Criteria for bounded valence of harmonic mappings, *Comput. Methods Funct. Theory* (2017).
- Huusko, J.-M., T. Korhonen, A. Reijonen, Linear Differential Equations with Solutions in the Growth Space, *Ann. Acad. Sci. Fenn. Math.* 41 (2016), no. 1, 399 – 416.
- Huusko, J.-M., Localisation of Linear Differential Equations in the Unit Disc by a Conformal Map, *Bull. Aust. Math. Soc.* 93 (2016), 260–271.

#### 10. Merits in teaching and pedagogical competence

- pedagogical studies, teacher of mathematics and physics
- supervision and evaluation of bachelors' thesis
- lectures and exercises, 33 ECTS in total: Introduction to Topology, Algebra a, Euclidean geometry, Measure and Integration Theory a, Basic Course in Fourier Analysis, Differential Calculus in Several Variables
- exercises, 36 ECTS in total: Analysis III, Numerical Analysis, Topology, Complex Analysis a, Introduction to Mathematics and Primitive Analysis
- creating online courses: Integral calculus (4 ECTS), Basics of Mathematics (5 ECTS, 80%), Linear Algebra a and b (9 ECTS), Basics of Numerical Calculations (3 ECTS), Data and Error Analysis in Natural Sciences (3 ECTS).
- typesetting of course materials for many courses (e.g. introduction to univalent functions, 120 pages, solutions to exercises in Fourier analysis, 64 pages)

#### 11. Other academic merits

- Editor-in-chief, *Metodologia*, a peer-reviewed international journal of methodology, currently rated JUFO1, 2020-
- Editor-in-chief, *UEFDSA newspaper*, 2019-
- Mathematical reviews -reviewer
- referee for the journal *J. Math. Anal. Appl.*
- student tutor (2008, 2009, 2010), speech to new students in mathematics and physics (2015, 2016, 2017)
- university representation for high school students in Abitour and Abidays
- working in SciFest science festival (2011, 2012, 2013, 2018)

#### 12. International experience

- conferences in Joensuu: 2012, 2014, 2015 ([poster](#)), 2016, 2018 ([poster](#))
- mathematics research seminar in Joensuu, 2013-2+17 (5 talks)
- Normal families, Würzburg, 5/2015 ([poster](#))

- Indian Statistical Institute, Chennai Centre (informal visit)
- CMFT-2017, Lublin, 7/2017 (talk)
- Analysis Near the Pole, Svalbard, 8/2018 (talk)
- Chinese-Finnish workshop in complex analysis, Beijing, 8/2017 (talk)
- New Developments in Complex Analysis and Function Theory, Heraclion 7/2018 ([poster](#))
- International JSXGraph Conference 5.-7.10.2021 ([talk](#))
- Finnish Mathematical Days 2022 ([talk](#))

### **Academic recommendations**

Risto Korhonen, professor (current supervisor)  
Department of Physics and Mathematics, UEF, Joensuu  
email. [risto.korhonen@uef.fi](mailto:risto.korhonen@uef.fi)  
tel. +358 50 442 2684  
<https://uefconnect.uef.fi/en/person/risto.korhonen/>

Janne Gröhn, university lecturer (leader of current project)  
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