

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: male
 - This document has been made 20.4.2023.
2. Date and place of birth, nationality, current residence
 - born: 20.04.1987, Kuhmo, Finland
 - nationality: Finnish
 - current residence: Kekkolantie 22a3, 40520 Jyväskylä
3. Education and degrees awarded
 - PhD, University of Eastern Finland, mathematics, 6/2017
 - MSc, University of Eastern Finland, *teacher of mathematics and physics*, 9/2013
 - BSc, University of Eastern Finland, 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
5. Linguistic skills
 - Mother tongue: Finnish - native
 - Other languages: English (fluent), Swedish (basic), German (basic), Bengali (basic)
6. Current position
 - university teacher, Aalto University, Finland, 10/2022-8/2023 (teaching Differential and integral calculus, 5 ECTS)
 - university teacher, University of Eastern Finland, 6/2022-6/2023 (UpTech, developing engineering studies)
7. Previous work experience
 - university teacher, University of Eastern Finland, 6/2021-5/2022 (online course materials)
 - hourly paid teacher, University of Eastern Finland, 9/2020-5/2021
 - university teacher, University of Eastern Finland, 8/2019 – 7/2020 (online course materials)
 - postdoctoral researcher, University of Eastern Finland, 12/2018 - 7/2019
 - IT support person, University of Eastern Finland, 2/2018 – 12/2018
 - postdoctoral researcher, University of Eastern Finland, 7 - 9/2017
 - early-stage researcher, University of Eastern Finland, 10/2013 - 6/2017 (full time doctoral student, teaching 80 hours per year, funding: UEF doctoral school)
8. Research funding as well as leadership and supervision
 - second supervisor of one doctoral student 9/2021 –
 - travel grant, 2500€, Väisälä, 2019
 - University of Eastern Finland, 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 University of Eastern Finland. 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

- qualified teacher of mathematics and physics, pedagogical studies 60 ECTS
- supervision and evaluation of bachelors' thesis
- lecturer, 38 ECTS in total: Differential and Integral Calculus, Introduction to Topology, Algebra a, Euclidean geometry, Measure and Integration Theory a, Basic Course in Fourier Analysis, Differential Calculus in Several Variables
- assistant, 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, 2020-
- Editor-in-chief, *UEFDSA* newspaper, 2019-2021
- 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
- working in SciFest science festival (2011, 2012, 2013, 2018)

12. International experience

- conferences in Joensuu: 2012, 2014, 2015, 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)

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Janne Gröhn, university lecturer (colleague)

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