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](https://www.integraali.com/huusko/certificates/tutkintotodistukset.pdf), [transcript of credits](https://www.integraali.com/huusko/certificates/suoritusoteHuusko.pdf))
   * 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](http://integraali.com/jsxgraph/jsxgraphhakemisto.php))
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.

1. 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)
2. 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)
3. International experience
   * conferences in Joensuu: 2012, 2014, 2015 ([poster](https://www.uef.fi/documents/250495/1983969/2015-huusko-localization.pdf)), 2016, 2018 ([poster](https://www.uef.fi/documents/250495/1983969/2017-huusko-ldes.pdf))
   * mathematics research seminar in Joensuu, 2013-2+17 (5 talks)
   * Normal families, Würzburg, 5/2015 ([poster](https://www.uef.fi/documents/250495/1983969/2015-huusko-localization.pdf))
   * 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](https://www.uef.fi/documents/250495/1983969/2017-huusko-ldes.pdf))
   * International JSXGraph Conference 5.-7.10.2021 ([talk](http://integraali.com/jsxgraph/presentations/2021-10-06-huusko-JSXGraph-and-3D-graphics.html))
   * Finnish Mathematical Days 2022 ([talk](http://integraali.com/jsxgraph/presentations/matematiikasta-ja-elamasta.html))

**Academic recommendations**

Risto Korhonen, professor (current supervisor)  
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Janne Gröhn, university lecturer (leader of current project)  
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