

# 1 Tutkimussuunnitelma

# Curriculum vitae

**Basic information**    **Research interest**  
Juha-Matti Huusko    Complex analysis

## 2 something

## Viitteet

- [1] J. Becker, *Löwnersche Differentialgleichung und quasikonform fortsetzbare schlichte Funktionen*, J. Reine Angew. Math. 255 (1972), 23–43.
- [2] J. Becker and Ch. Pommerenke, Locally univalent functions and the Bloch and Dirichlet norm, *Comput. Methods Funct. Theory* **16** (2016), 43–52.
- [3] M. Chuaqui, D. Stowe, *Valence and oscillation of functions in the unit disk*, Ann. Acad. Sci. Fenn. Math. 33 (2008), no. 2, 561–584.
- [4] M. Chuaqui, J. Gröhn, J. Heittokangas, J. Rättyä, *Zero separation results for second order linear differential equations*, Adv. Math. 245 (2013), 382–422.
- [5] J. Clunie, T. Sheil-Small, *Harmonic univalent functions*, Ann. Acad. Sci. Fenn. Ser. A I Math. 9 (1984), 3–25.
- [6] I. Chyzhykov, J. Heittokangas, J. Rättyä, *Sharp logarithmic derivative estimates with applications to ordinary differential equations in the unit disc*, J. Aust. Math. Soc. (2010), no. 2, 145–167.
- [7] P. Duren, *Harmonic mappings in the plane*, Cambridge University Press, 2004.
- [8] F. W. Gehring, Chr. Pommerenke, *On the Nehari univalence criterion and quasicircles*, Comment. Math. Helv. 59 (1984), no. 2, 226–242.
- [9] E.A. Gallardo-Gutiérrez, M.J. González, F. Pérez-González, Chr. Pommerenke, J. Rättyä, *Locally univalent functions, VMOA and the Dirichlet space*, Proc. Lond. Math. Soc. (3) 106 (2013), no. 3, 565–588.
- [10] J. Gröhn, J-M. Huusko, J. Rättyä, *Linear differential equations with slowly growing solutions*, preprint. (Submitted in 9/2016.). <https://arxiv.org/abs/1609.01852>
- [11] J. Gröhn, J. Rättyä, *On oscillation of solutions of linear differential equations*. Available from <http://arxiv.org/pdf/1506.00009v1.pdf>
- [12] J. Heittokangas, R. Korhonen, J. Rättyä, *Growth estimates for solutions of linear complex differential equations*, Ann. Acad. Sci. Fenn. Math. (2004), no. 1, 233–246.
- [13] J. Heittokangas, R. Korhonen, J. Rättyä, *Linear differential equations with solutions in the Dirichlet type subspace of the Hardy space*, Nagoya Math. J. (2007), 91–113.
- [14] J. Heittokangas, R. Korhonen, J. Rättyä, *Linear differential equations with coefficients in the weighted Bergman and Hardy spaces*, Trans. Amer. Math. Soc. (2008), 1035–1055.
- [15] J. Heittokangas, J. Rättyä, *Zero distribution of solutions of complex linear differential equations determines growth of coefficients*, Math. Nachr. 284 (2011), 412–420.
- [16] R. Hernández, M.J. Martín, *Pre-Schwarzian and Schwarzian derivatives of harmonic mappings*, J. Geom. Anal. 25 (2015), no. 1, 64–91.
- [17] J-M. Huusko, *Localisation of linear differential equations in the unit disc by a conformal map*, Bull. Aust. Math. Soc. **93** (2016), no. 2, 260–271.  
DOI: <http://dx.doi.org/10.1017/S0004972715001070>
- [18] J-M. Huusko, T. Korhonen, A. Reijonen, *Linear differential equations with solutions in the growth space  $H_\omega^\infty$* , Ann. Acad. Sci. Fenn. Math. **41** (2016), no. 1, 399–416.  
<http://www.acadsci.fi/mathematica/Vol41/HuuskoKorhonenReijonen.html>
- [19] J.-M. Huusko, M. Martín, *Criteria for bounded valence of harmonic mappings*, preprint. <https://arxiv.org/abs/1611.05667> (Submitted in 10/2016.)
- [20] I. Laine, *Nevanlinna Theory and Complex Differential Equations*, Walter de Gruyter, Berlin, (1993).
- [21] Z. Nehari, *The Schwarzian derivative and schlicht functions*, Bull. Amer. Math. Soc. 55, (1949). 545–551.
- [22] H. Wittich, *Zur theorie linearer differentialgleichungen im komplexen*, Ann. Acad. Sci. Fenn. Ser. A I Math. (1966), 1–18.