Imaging the structure and the movement of the retina with scanning light ophthalmoscopy

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9 Publication list

Publications (partially) included in this thesis:

1. **Kari V. Vienola**, Boy Braaf, Christy K. Sheehy, Qiang Yang, Pavan Tiruveedhula, David W. Arathorn, Johannes F. de Boer, and Austin Roorda, "Real-time eye motion compensation for OCT imaging with tracking SLO," Biomedical Optics Express 3(11), 2950-2963 (2012).

2. Boy Braaf, **Kari V. Vienola**, Christy K. Sheehy, Qiang Yang, Koenraad A. Vermeer, Pavan Tiruveedhula, David W. Arathorn, Austin Roorda, and Johannes F. de Boer, "Real-time eye motion correction in phase-resolved OCT angiography with tracking SLO," Biomedical Optics Express 4(1), 51-65 (2013).

3. **Kari V. Vienola**, Mathi Damodaran, Boy Braaf, Koenraad A. Vermeer, and Johannes F. de Boer, "Parallel line scanning ophthalmoscope for retinal imaging," Optics Letters 40(22), 5335-5338 (2015).

4. Mathi Damodaran, **Kari V. Vienola**, Boy Braaf, Koenraad A. Vermeer, and Johannes F. de Boer, "Digital micromirror device based ophthalmoscope with concentric circle scanning," Biomedical Optics Express 8, 2766-2780 (2017).

5. **Kari V. Vienola**, Mathi Damodaran, Boy Braaf, Koenraad A. Vermeer, and Johannes F. de Boer, "*In vivo* retinal imaging for fixational eye motion detection

using a high-speed DMD-based ophthalmoscope," Submitted.

Publications outside this thesis:

6. Boy Braaf, Koenraad A. Vermeer, **Kari V. Vienola**, and Johannes F. de Boer, "Angiography of the retina and the choroid with phase-resolved OCT using interval-optimized backstitched B-scans," Optics Express 20(18), 20516-20534 (2012).

7. Boy Braaf, Koenraad A. Vermeer, Mattijs de Groot, **Kari V. Vienola**, and Johannes F. de Boer, "Fiber-based polarization-sensitive OCT of the human retina with correction of system polarization distortions," Biomedical Optics Express 5(8), 2736-2758 (2014).