
Sebastian Dille

Residence: Vancouver, Canada

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Professional Experience

Simon Fraser University (Burnaby)

01/20 - 05/26

Research Assistant (Computational Photography Lab)

Investigating applications related to scene reconstruction and mid-level vision with focus on:

- single-image HDR reconstruction, SDR-to-HDR conversion
- contrastive learning for accurate image segmentation
- high-resolution monocular depth estimation
- hyperspectral photography
- several project collaborations with Adobe Research

Netflix Inc. (Los Gatos)

06/25 - 08/25

ML Research Intern

Scene-referred image reconstruction

- SDR-to-HDR conversion
- developing methods to recover clipped details and wide color gamut
- working with an interdisciplinary team to accommodate artistic requirements

CinePostproduction GmbH (Munich)

04/16 - 11/19

Post-production Supervisor

Project Lead for theatrical post-production, including dailies, color correction, VFX and digital film restoration:

- leading cross-functional teams of technical operatives and creative artists
- customer consultation and developing bespoke workflows
- supervising the post-production processes and quality management of numerous full feature films and restorations for TV and digital cinema.

Trixter Film GmbH (Munich)

04/11 - 05/11

Compositing Artist

Digital Compositing for international feature films

- Stereo3D conversion
- Keying/Rotoscoping
- CG integration and compositing

Key Skills

- *Deep Learning Frameworks: PyTorch, TF*
- *Programming Languages: Python, Matlab*
- *Languages: fluent German and English (written and verbal)*
- *Other: Color Science, Project Management*
- *Production tools: Nuke, Adobe Creative Suite*

Education

Simon Fraser University 01/20 - 05/26

Ph.D. Computer Science

Thesis: *Physically-Based Models of Dynamic Range Extension*

TH Köln

09/11 - 06/15

M.Eng. Media and Imaging Technology

• Final thesis: *Real-time tone mapping: An evaluation of Color-Accurate Methods for Luminance compression.*

Media University Stuttgart

09/07 - 02/11

B.Eng. Audiovisual Media

• Final thesis: *Depth-keying in digital motion pictures*

Teaching Experience

Teaching Assistantships:

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| • CMPT 361 Intro to Visual Computing | Fall 2023, 2024 |
| • CMPT 461 Computational Photography | Spring 2021-23 |
| • CMPT 462 Computer Vision | Spring, Fall 25 |

Guest Lectures:

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| • “Practical Applications of Computational Photography”
as part of CMPT 461 Computational Photography | Spring 2020-25 |
| • “Image Segmentation”
as part of CMPT 462 Computer Vision | Fall 2024-25 |

Academic Service

- Reviewer for TPAMI, CVPR, ECCV, ICCV, BMVC, SIGGRAPH, Pacific Graphics, Eurographics, Displays

Publications

- *Physically-Based Models of Dynamic Range Extension*
S. Dille - Ph.D. Thesis, 2026
- *Recurrent Dynamic Range Extension*
S. Dille, K. Fu, S. Mahdi H. Miangoleh, Y. Aksoy - In review at SIGGRAPH Asia 2026
- *Physically-Based Compositing of 2D Graphics*
T. Tracey, S. Diaconu, **S. Dille**, S. Mahdi H. Miangoleh, Y. Aksoy
ACM SIGGRAPH Posters 2025
- *Intrinsic Single-Image HDR Reconstruction*
S. Dille*, C. Careaga*, Y. Aksoy - ECCV, 2024
- *A Bottom-Up Approach to Class-Agnostic Image Segmentation*
S. Dille, A. Blondal, S. Paris, Y. Aksoy - ECCV Workshops, 2024
- *Interactive RGB+ NIR Photo Editing*
S Antunes Miranda, S Mirzaei, M Bebawy, **S. Dille**, Y. Aksoy - ACM SIGGRAPH Posters 2024
- *Parallax Background Texture Generation*
S. Y. Shen, B Okano, **S. Dille**, Y. Aksoy - ACM SIGGRAPH Posters 2022
- *Boosting Monocular Depth Estimation Models to High-Resolution via Content-Adaptive Multi-Resolution Merging*
S. M. H. Miangoleh*, **S. Dille***, L. Mai, S. Paris, Y. Aksoy - CVPR, 2021
- *Real-Time Tone-Mapping: An Evaluation of Color-Accurate Methods for Luminance Compression*
S. Dille, A. Fuhrmann, G. Fischer - 22. Workshop Farbbildverarbeitung 2016

Patents

- *Systems and Methods for Augmenting Dynamic Range of Images Using Neural Networks*
Provisional Patent Application
Inventors: S. Dille and Y. Aksoy
Assignee: Simon Fraser University

Awards

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| • Ralph M Howatt Family Graduate Scholarship | Spring 2025 |
| • Helmut & Hugo Eppich Family Graduate Scholarship | Spring 2024 |
| • Special Graduate Entrance Scholarship | Spring 2020 |