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EDUCATION

Ph.D (Materials Science & Engineering), University of Michigan, Ann Arbor, MI — Current

- Research Emphasis: Electron Microscopy, Low-dimensional Materials, Quantum Materials.

M. S. (Materials Science & Engineering), University of Michigan, Ann Arbor, MI — Aug. 2017 – Dec. 2020

B. S. (Engineering Physics), Cornell University, Ithaca, NY — Aug. 2012 – Jan. 2016

PUBLICATIONS

18. **S. H. Sung**, N. Schnitzer, W. Millsaps, L. F. Kourkoutis, and R. Hovden "Ronchigram Simulation and Training Using Ronchigram.com", **Microscopy Today (In Press)** (2022)

17. W. Liu, X. Guo, J. Schwartz, H. Xie, N. Dhale, **S. H. Sung**, A. L. N. Kondusamy, X. Wang, H. Zhao, D. Berman, R. Hovden, L. Zhao, and B. Lv "A three-stage magnetic phase transition revealed in ultrahigh-quality van der Waals magnet CrSBr", **Under Review**, Arxiv 2203.09582 (2022) [10.48550/arXiv.2203.09582]

16. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, H. Xie, K. Zhang, Z. Li, A. Ye, P. B. Deotare, E. B. Tadmor, A. J. Mannix, J. Park, L. Zhao, P. Kim, and R. Hovden "Torsional Periodic Lattice Distortions and Diffraction of Twisted 2D Materials", **Under Review**, Arxiv 2203.06510 (2022) [10.48550/arXiv.2203.06510]

15. B. Yang, Y. M. Goh, **S. H. Sung**, G. Ye, S. Biswas, D. A. S. Kaib, R. Dhaka, S. Yan, C. Li, S. Jiang, F. Chen, H. Lei, R. Valent, S. M. Winter, R. Hovden, and A. W. Tsen "Magnetic anisotropy reversal driven by structural symmetry-breaking in monolayer α-$RuCl_3$", **Nature Materials (Accepted)** (2022)

14. **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, X. Luo, J. Gim, N. M. Vu, Z. Li, T. H. Brintlinger, Y. Liu, W. Lu, Y. P. Sun, P. Deotare, K. Sun, L. Zhoa, L. F. Kourkoutis, J. T. Heron, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **Nature Communications 13**, 413 (2022) [10.1038/s41467-021-27947-5]

13. A. J. Mannix, A. Ye, **S. H. Sung**, A. Ray, F. Mujid, C. Park, M. Lee, J.-H. Kang, R. Shreiner, A. A. High, D. A. Muller, R. Hovden, and J. Park "Robotic Four-Dimensional Pixel Assembly of van der Waals Solids", **Nature Nanotechnology** (2022) [10.1038/s41565-021-01061-5]

12. H. Xie, X. Luo, G. Ye, Z. Ye, H. Ge, **S. H. Sung**, E. Rennich, S. Yan, Y. Fu, S. Tian, H. Lei, R. Hovden, K. Sun, R. He, and L. Zhao "Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures", **Nature Physics 18**, 30–36 (2022) [10.1038/s41567-021-01408-8]

11. X. Luo, D. Obeysekera, C. Won, **S. H. Sung**, N. Schnitzer, R. Hovden, S.-W. Cheong, J. Yang, K. Sun, and L. Zhao "Ultrafast Modulations and Detection of a Ferro-Rotational Charge Density Wave Using Time-Resolved Electric Quadrupole Second Harmonic Generation", **Physical Review Letters 127**, 126401 (2021) [10.1103/PhysRevLett.127.126401]

10. P. Meisenheimer, R. A. Steinhardt, **S. H. Sung**, L. D. Williams, S. Zhuang, M. E. Nowakowski, S. Novakov, M. M. Torunbalci, B. Prasad, C. J. Zollner, Z. Wang, N. M. Dawley, J. Schubert, A. H. Hunter, S. Manipatruni, D. E. Nikonov, I. A. Young, L. Q. Chen, J. Bokor, S. A. Bhave, R. Ramesh, J.-M. Hu, E. Kioupakis, R. Hovden, D. G. Schlom, and J. T. Heron "Engineering new limits to magnetostriction through metastability in iron-gallium alloys", **Nature Communications 12**, 2757 (2021) [0.1038/s41467-021-22793-x]

9. R. Yalisove*, **S. H. Sung***, P. Ercius, and R. Hovden "The Limits of Resolution and Dose for Aberration-Corrected Tomography", **Physical Review Applied 15**, 014003 (2021) [10.1103/PhysRevApplied.15.014003] **[Editor's Choice]**

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8. N. Schnitzer*, **S. H. Sung***, and R. Hovden "Optimal STEM Convergence Angle Selection using a Convolutional Neural Network and Strehl Ratio", **Microscopy and Microanalysis 26**, 52, 160–161 (2020) [10.1017/S1431927620001841]

7. P. B. Meisenheimer, L. D. Williams, **S. H. Sung**, J. Gim, P. Shafer, G. N. Kotsonis, J.-P. Maria, M. Trassin, R. Hovden, E. Kioupakis, and J. T. Heron "Magnetic frustration control through tunable stereochemically driven disorder in entropy-stabilized oxides", **Physical Review Materials 3**, 10, 104420 (2019) [10.1103/PhysRevMaterials.3.104420]

6. Y. Wang, Y. Wu, J. Schwartz, **S. H. Sung**, R. Hovden, and Z. Mi "A Single-Junction Cathodic Approach for Stable Unassisted Solar Water Splitting", **Joule 3**, 10, 2444–2456 (2019) [10.1016/j.joule.2019.07.022]

5. **S. H. Sung***, N. Schnitzer*, L. Brown, J. Park, and R. Hovden "Stacking, strain, and twist in 2D materials quantified by 3D electron diffraction", **Physical Review Materials 3**, 6, 064003 (2019) [10.1103/PhysRevMaterials.3.064003]

4. N. Schnitzer, **S. H. Sung**†, and R. Hovden "Introduction to the Ronchigram and its Calculation with Ronchigram.com", **Microscopy Today 27**, 3, 12–15 (2019) [10.1017/S1551929519000427]

3. H. Yoo, R. Engelke, S. Carr, S. Fang, K. Zhang, P. Cazeaux, **S. H. Sung**, R. Hovden, A. W. Tsen, T. Taniguchi, K. Watanabe, G.-C. Yi, M. Kim, M. Luskin, E. B. Tadmor, E. Kaxiras, and P. Kim "Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene", **Nature Materials 18**, 5, 448–453 (2019) [10.1038/s41563-019-0346-z]

2. S. Chatterjee, **S. H. Sung**, D. J. Baek, L. F. Kourkoutis, D. G. Schlom, and K. M. Shen "Epitaxial growth and electronic properties of mixed valence $YbAl_3$ thin films", **Journal of Applied Physics 120**, 3, 035105 (2016) [10.1063/1.4958336]

1. Y. F. Nie, Y. Zhu, C.-H. Lee, L. F. Kourkoutis, J. A. Mundy, J. Junquera, P. Ghosez, D. J. Baek, **S. Sung**, X. X. Xi, K. M. Shen, D. A. Muller, and D. G. Schlom "Atomically precise interfaces from non-stoichiometric deposition", **Nature Communications 5**, 1, 1–8 (2014) [10.1038/ncomms5530]

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CONFERENCE ABSTRACTS

20. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, H. Xie, Z. Li, A. Ye, P. B. Deotare, A. J. Mannix, J. Park, L. Zhao, P. Kim, and R. Hovden "Universal Torsional Periodic Lattice Distortion in Twisted 2D Materials", **Microscopy and Microanalysis 28 (S1)**, 1742–1744 (2022)

19. **S. H. Sung**, Y. M. Goh, N. Agarwal, N. Schnitzer, I. El Baggari, K. Sun, L. F. Kourkoutis, and R. Hovden "Engineering Charge Density Waves using Interleaved Polytype Heterostructures", **Microscopy and Microanalysis 28 (S1)**, 2362–2364 (2022)

18. Y. M. Goh*, **S. H. Sung***, B. Yang, G. Ye, S. Biswas, D. A. S. Kaib, R. Dhaka, S. Yan, C. Li, S. Jiang, F. Chen, H. Lei, R. Valent, S. M. Winter, R. Hovden, and A. W. Tsen "Pico-scale Distortions in Encapsulated Monolayer α-$RuCl_3$ Characterized with 3D Electron Diffraction", **Microscopy and Microanalysis 28 (S1)**, 1982–1985 (2022) [**Poster Award**]

17. N. Agarwal*, **S. H. Sung***, J. Schwartz, and R. Hovden "Accessing Chemically Ordered Phases in TaS_2 via High Temperature In-situ TEM", **Microscopy and Microanalysis 28 (S1)**, 1926–1927 (2022) [**M&M Student Scholar Awards**]

16. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, P. Kim, and R. Hovden "Torsional Periodic Lattice Distortion in Twisted Bilayer Graphene", **Bulletin of the American Physical Society 67**, 3, K56.2 (2022)

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14. H. Xie, X. Luo, G. Ye, Z. Ye, H. Ge, **S. H. Sung**, E. Rennich, S. Yan, Y. Fu, S. Tian, H. Lei, R. Hovden, K. Sun, R. He, and L. Zhao "Tuning two-dimensional magnetism in twisted CrI_3 double bilayers", **Bulletin of the American Physical Society 67**, 3, Q55.4 (2022)

13. **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, X. Luo, J. Gim, N. Vu, Z. Li, T. Brintlinger, Y. Liu, W. Lu, Y. P. Sun, P. Deotare, K. Sun, L. Zhao, L. F. Kourkoutis, J. T. Heron, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **Materials Research Society** (2021)

12. **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, X. Luo, J. Gim, N. Vu, Z. Li, T. Brintlinger, Y. Liu, W. Lu, Y. P. Sun, P. Deotare, K. Sun, L. Zhao, L. F. Kourkoutis, J. T. Heron, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **Microscopy and Microanalysis 27 (S1)**, 896–898 (2021)

11. **S. H. Sung**, Y. M. Goh, I. El Baggari, K. Sun, and R. Hovden "Recovery of long-range order in two-dimensional charge density waves at high temperatures", **Microscopy and Microanalysis 27 (S1)**, 852–854 (2021) [**M&M Student Scholar Awards**]

10. R. Engelke, H. Yoo, S. Carr, **S. H. Sung***, K. Zhang, A. M. Valdiva, E. B. Tadmor, R. Hovden, E. Kaxiras, and P. Kim "Imaging of 2-Dimensional Dislocation Networks in Twisted Bilayer Graphene and Beyond", **Microscopy and Microanalysis 26 (S2)**, 854–855 (2020)

9. R. Yalisove*, **S. H. Sung***, J. Schwartz, C. Groschner, P. Pelz, H. Zheng, Y. Jiang, C. Ophus, M. Scott, P. Ercius, and R. Hovden "Achieving High-resolution of Large Specimens Using Aberration-corrected Tomography", **Microscopy and Microanalysis 26 (S2)**, 1860–1862 (2020)

8. R. Hovden, R. Yalisove, J. Schwartz, **S. H. Sung**, Y. Jiang, and P. Ercius "Achieving High-resolution of Large Specimens Using Aberration-corrected Tomography", **Microscopy and Microanalysis 26 (S2)**, 924–925 (2020)

7. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, P. Kim, and R. Hovden "Torsional Periodic Lattice Distortion in Twisted Bilayer Graphene", **Microscopy and Microanalysis 26 (S2)**, 864–866 (2020)

6. R. Hovden, **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, B. Savitzky, J. T. Heron, and L. F. Kourkoutis "The Structure of Charge Density Wave Phase Transitions in Atomically Thin Materials", **Microscopy and Microanalysis 26 (S2)**, 864–866 (2020)

5. R. Yalisove*, **S. H. Sung***, and R. Hovden "Defining Theoretical Limits of Aberation-Corrected Electron Tomography: New Bounds for Resolution, Ojbect Size, and Dose", **Microscopy and Microanalysis 25 (S2)**, 1810–1811 (2019) [**M&M Student Scholar Awards**]

4. N. Schnitzer*, **S. H. Sung***, and R. Hovden "Maximal Resolution from the Ronchigram: Human vs. Deep Learning", **Microscopy and Microanalysis 25 (S2)**, 160–161 (2019)

3. N. Schnitzer*, **S. H. Sung***, and R. Hovden "Stacking, Strain, & Stiffness of 2D Transition Metal Dichalcogenides Quantified through Reciprocal Space", **Microscopy and Microanalysis 24 (S1)**, 1586–1587 (2018) [**M&M Student Scholar Awards**]

2. H. Yoo, K. Zhang, R. Engelke, P. Cazeaux, **S. H. Sung**, R. Hovden, A. Tsen, T. Taniguchi, K. Watanabe, G.-C. Yi, M. Kim, M. Luskin, E. Tadmor, and P. Kim "Atomic Scale Relaxation at the van der Waals Interface in Twisted Bilayer Graphene", **Bulletin of the American Physical Society 63**, 1, V37.10 (2018)

1. R. Engelke, H. Yoo, K. Zhang, P. Cazeaux, **S. H. Sung**, R. Hovden, A. Tsen, T. Taniguchi, K. Watanabe, G.-C. Yi, M. Kim, M. Luskin, E. Tadmor, and P. Kim "Structural study of atomic relaxation and commensurate transition in twisted bilayer graphene", **Bulletin of the American Physical Society 63**, 1, V37.9 (2018)

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PRESENTATIONS

22. W. Milsaps*, **S. H. Sung***, N. Schnitzer, L. F. Kourkotuis, and R. Hovden "Ronchigram Simulation and Training through Ronchigram.com", **Microscopy and Microanalysis** (2022) Portland, OR

21. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, H. Xie, Z. Li, A. Ye, P. B. Deotare, A. J. Mannix, J. Park, L. Zhao, P. Kim, and R. Hovden "Universal Torsional Periodic Lattice Distortion in Twisted 2D Materials", **Microscopy and Microanalysis** (2022) Portland, OR

20. **S. H. Sung**, Y. M. Goh, N. Agarwal, N. Schnitzer, I. El Baggari, K. Sun, L. F. Kourkoutis, and R. Hovden "Engineering Charge Density Waves using Interleaved Polytype Heterostructures", **Microscopy and Microanalysis** (2022) Portland, OR

19. Y. M. Goh*, **S. H. Sung***, B. Yang, G. Ye, S. Biswas, D. A. S. Kaib, R. Dhaka, S. Yan, C. Li, S. Jiang, F. Chen, H. Lei, R. Valent, S. M. Winter, R. Hovden, and A. W. Tsen "Pico-scale Distortions in Encapsulated Monolayer α-$RuCl_3$ Characterized with 3D Electron Diffraction", **Microscopy and Microanalysis** (2022) Portland, OR

18. N. Agarwal*, **S. H. Sung***, J. Schwartz, and R. Hovden "Accessing Chemically Ordered Phases in TaS_2 via High Temperature In-situ TEM", **Microscopy and Microanalysis** (2022) Portland, OR

17. **S. H. Sung**, Y. M. Goh, N. Agarwal, N. Schnitzer, I. El Baggari, K. Sun, L. F. Kourkoutis, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **PARADIM** (2022) Baltimore, MD **[Invited Presentation]**

16. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, P. Kim, and R. Hovden "Torsional Periodic Lattice Distortion in Twisted Bilayer Graphene", **APS March Meeting** (2022) Chicago, IL

15. A. Ye, A. J. Mannix, **S. H. Sung**, A. Ray, F. Mujid, C. Park, M. Lee, J.-H. Kang, R. T. Shreiner, A. A. High, D. A. Muller, R. Hovden, and J. Park "Robotically Manufactured Complex van der Waals Heterostructures for Interlayer-Angle-Controlled Combinatorial Solids", **APS March Meeting** (2022) Chicago, IL

14. H. Xie, X. Luo, G. Ye, Z. Ye, H. Ge, **S. H. Sung**, E. Rennich, S. Yan, Y. Fu, S. Tian, H. Lei, R. Hovden, K. Sun, R. He, and L. Zhao "Tuning two-dimensional magnetism in twisted CrI3 double bilayers", **APS March Meeting** (2022) Chicago, IL

13. **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, X. Luo, J. Gim, N. Vu, Z. Li, T. Brintlinger, Y. Liu, W. Lu, Y. P. Sun, P. Deotare, K. Sun, L. Zhao, L. F. Kourkoutis, J. T. Heron, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **Materials Research Society** (2021)

12. **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, X. Luo, J. Gim, N. Vu, Z. Li, T. Brintlinger, Y. Liu, W. Lu, Y. P. Sun, P. Deotare, K. Sun, L. Zhao, L. F. Kourkoutis, J. T. Heron, and R. Hovden "Two-dimensional charge order stabilized in clean polytype heterostructures", **Microscopy and Microanalysis** (2021) Virtual Conference

11. **S. H. Sung**, Y. M. Goh, I. El Baggari, K. Sun, and R. Hovden "Recovery of long-range order in two-dimensional charge density waves at high temperatures", **Microscopy and Microanalysis** (2021) Virtual Conference

10. **S. H. Sung**, N. Schnitzer, and R. Hovden "Maximal Resolution from the Ronchigram: Human vs. Deep Learning", **AI for Atoms: How to Machine Learn STEM** (2020) ORNL/CNMS Virtual Workshop

9. **S. H. Sung**, Y. M. Goh, H. Yoo, R. Engelke, P. Kim, and H. Robert "Torsional Periodic Lattice Distrtion in Twisted Bilayer Graphene", **Microscopy and Microanalysis** (2020) Virtual Conference

8. R. Yalisove*, **S. H. Sung***, J. Schwartz, C. Groschner, P. Pelz, H. Zheng, Y. Jiang, C. Ophus, M. C. Scott, P. Ercius, and H. Robert "Achieving High-Resolution of Large Specimens Using Aberration-Corrected Electron Tomography", **Microscopy and Microanalysis** (2020) Virtual Conference

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7. R. Hovden, R. Yalisove, J. Schwartz, **S. H. Sung**, Y. Jiang, and P. Ercius "Filling in the Missing Wedge with Aberration-Corrected Electron Tomography", **Microscopy and Microanalysis** (2020) Virtual Conference
6. R. Engelke, H. Yoo, S. Carr, **S. H. Sung**, K. Zhang, A. M. Valdivia, E. Tadmor, R. Hovden, K. E., and P. Kim "Imaging of 2Dimensional Dislocation Networks in Twisted Bilayer Graphene and Beyond", **Microscopy and Microanalysis** (2020) Virtual Conference
5. R. Hovden, **S. H. Sung**, N. Schnitzer, S. Novakov, I. El Baggari, B. H. Savitzky, J. T. Heron, and L. F. Kourkoutis "The Structure of Charge Density Wave Phase Transitions in Atomically Thin Materials", **Microscopy and Microanalysis** (2020) Virtual Conference
4. R. Yalisove*, **S. H. Sung***, and R. Hovden "Defining Theoretical Limits of Aberation-Corrected Electron Tomography: New Bounds for Resolution, Ojbect Size, and Dose", **Frontiers of Electron Microscopy and Materials Science** (2018) Ashville, NC
3. R. Yalisove*, **S. H. Sung***, and R. Hovden "Defining Theoretical Limits of Aberation-Corrected Electron Tomography: New Bounds for Resolution, Ojbect Size, and Dose", **Microscopy and Microanalysis** (2019) Portland, OR
2. N. Schnitzer*, **S. H. Sung***, and R. Hovden "Maximal Resolution from the Ronchigram: Human vs. Deep Learning", **Microscopy and Microanalysis** (2019) Portland, OR
1. N. Schnitzer*, **S. H. Sung***, and R. Hovden "Stacking, Strain, & Stiffness of 2D Transition Metal Dichalcogenides Quantified through Reciprocal Space", **Microscopy and Microanalysis** (2018) Baltimore, MD

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RESEARCH EXPERIENCES

Graduate Student Research Assistant, Hovden Lab, University of Michigan — Apr. 2016 – Current

Research Emphasis: 2D Materials, Quantum Materials

Visiting Scientist, Kourkoutis Electron Microscopy Group, Cornell University — Jan. 2016 – Jun 2016

Research Emphasis: Nano-characterization of thin-film complex oxide heterostructure using scanning transmission electron microscopy (STEM), electron energy loss spectroscopy (EELS) and energy dispersive x-ray spectroscopy (EDS)

• Performed STEM and EDS to examine and confirm the epitaxial growth of the film and separation of the YbAl3 layer from the intermediate buffer layers.
[Chatterjee, et al. Journal of Applied Physics, 120, 035105 (2016)]

Undergraduate Researcher, Kourkoutis Electron Microscopy Group — Feb. 2014 – Dec. 2015

- Preparation of electron-transparent (S)TEM specimen via tripod polishing technique
- Multislice simulation of STEM

AWARDS

Rackham Predoctral Fellowship	2022–2023
Rackham Conference Travel Grant	2021, 2022
Microscopy & Microanalysis 2021 Student Scholar Award	Aug. 2021
Rackham Graduate Student Research Grant	Jun. 2021
Dorothy & Fred Chau Award: Excellence in Undergraduate Research	May. 2016
Engineering Learning Initiatives Undergraduate Research Award	Apr. 2014 & Sept. 2014

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SKILLS

Electron Microscopy: TEM, STEM, SEM, Multislice Simulations

Spectroscopy: Quantitative EELS and EDS

TEM Sample Preparation: Tripod Polishing, Focused Ion Beam

Software: MATLAB, Python, HTML/CSS/Javascript, C, ImageJ, Adobe Illustrator, Adobe Photoshop, Blender

TEACHING EXPERIENCES & OUTREACH

PARADIM Summer School on Scanning Transmission Electron Microscopy — June. 2021

- Designed a tutorial module for PARADIM 2021 Summer school supported under NSF Grant No. DMR-2039380.

Ronchigram.com: Open-source education tool for advanced Electron Microscopy — Jul. 2018 – Current

- Built and maintains '**ronchigram.com**', an open-source, cross-platform electron microscopy training tool.

Graduate Student Instructor, University of Michigan — Aug. 2019 – Dec. 2019

- Teaching assistant for 'Introduction to Electron Microscopy (MSE 562)'

Undergraduate Teaching Assistant, Cornell University — Aug. 2015 – Dec. 2015

- Assisted graduate TA for 'Physics I: Mechanics and Heat (PHYS 1112)'

Private Tutor — Jun. 2012 – Aug. 2017

- Tutored various AP/IB level mathematics and science courses

REFERENCE

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