

# Sebastian Cohn

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## EDUCATION

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**University of Pittsburgh, Pittsburgh, PA**

Apr 2022

B.S. in Neuroscience; Chemistry minor

Additional coursework in mathematics and biomedical engineering

## RESEARCH

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**Markl Lab (Radiology)**

Jul 2024-Present

*Peer-reviewed publication*

- Dushfunian D, Cohn S, Berhane H, Markl M. 4D Flow MRI of the Thoracic Aorta. *Radiology: Cardiothoracic Imaging*. 2025 Aug;7(4):e240532. doi:10.1148/ryct.240532.

*Conference presentations*

- Cohn S, Weiss E, Mehta C, Markl M, Allen B. Automated Extraction of False Lumen Flow Dynamics in Aortic Dissection Using 4D Flow MRI Correlates with False Lumen Ejection Fraction. *SCMR 29th Annual Scientific Sessions*; 2026.
- Cohn S, Weiss E, Mehta C, Apostolidis C, Dong W, Markl M, Allen B. Regional Analysis: Automated Extraction of False Lumen Flow Dynamics in Aortic Dissection Using 4D Flow MRI. *2026 ISMRM & ISMRT Annual Meeting & Exhibition*; 2026 (accepted).
- Cohn S, Berhane H, Johnson EM, Allen BD, Markl M. Highly AI Accelerated 4D Flow MRI of the Aorta: Network Performance and Impact on Quantification of Aortic Wall Shear Stress. *USNCCM18*; 2025.
- Cohn S, Dong W, Allen B, Markl M. Deep Learning Image-to-Image Translation from CEMRA to CTA via Conditioned Diffusion. *SMRA*; 2025.

**Huang Lab (Computational Neuroscience)**

Jun 2020-Apr 2022

*Conference presentations*

- Cohn S, Huang C. Variability Suppression in a Neural Network Model. *MathFest [University of Pittsburgh]*; 2021.
- Cohn S, Huang C. Variability Suppression in a Neural Network Model. *Neuroscience Club Symposium [University of Pittsburgh]*; 2021.

*Thesis*

- Senior Honors Thesis.

**Strick Lab (Neurobiology)**

Sep 2019-Jun 2020

## WORK AND LEADERSHIP

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**Personal Care Attendant**

Feb 2019-Mar 2020

**Business Manager, Neuroscience Club**

Sep 2019-May 2022

## TEACHING ASSISTANT

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**Theoretical Neuroscience (Dr. Albanna)**

Jan 2022-May 2022

**Brain and Behavior (Dr. Albanna)**

Aug 2020-Dec 2020

**Research in Behavioral Neuroscience (Dr. Stricker)**

Jan 2020-May 2020

**Brain and Behavior (Dr. Stricker)**

Aug 2019-Dec 2019

## **AWARDS**

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- Northwestern MSTP Heller Scholarship
- Pitt Chancellor's Undergraduate Teaching Fellowship
- Pitt Honors College Scholarship
- Volunteer of the Month Award (SOY Elementary)
- Pitt Summer Tuition Assistance Award
- Pitt Tuition Assistance Award

## **ADDITIONAL SKILLS**

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- Coding: MATLAB and Python
- Fluent in Spanish