# Tyler L. Hayes

## Education \_\_\_\_\_

#### **Rochester Institute of Technology**

Ph.D. IN IMAGING SCIENCE

• Thesis: Towards Efficient Lifelong Machine Learning in Deep Neural Networks

• Advisor: Dr. Christopher Kanan

#### **Rochester Institute of Technology**

M.S. IN APPLIED AND COMPUTATIONAL MATHEMATICS

• Thesis: Compassionately Conservative Normalized Cuts for Image Segmentation

• Advisor: Dr. Nathan Cahill

#### **Rochester Institute of Technology**

B.S. IN APPLIED MATHEMATICS

• Magna Cum Laude

## Rochester, NY

Aug. 2016 - May 2022

Rochester, NY

Jan. 2015 - May 2017

Rochester, NY

Sept. 2011 - May 2014

## Experience \_\_\_\_\_

#### **Georgia Institute of Technology**

RESEARCH FACULTY & RESEARCH SCIENTIST II

• Conduct research at the intersection of AI and scientific discovery.

• Perform interpretability and explainability analyses of protein structure prediction models such as AlphaFold2, OpenFold, and Boltz.

#### **NAVER LABS Europe**

RESEARCH SCIENTIST

• Developed methods for novel class discovery and detection, open-vocabulary object detection with vision-language models, and explainable AI with visionlanguage models on the team led by Dr. Diane Larlus.

• Led collaboration with Autonomous Driving group to apply our methods to realworld data collected by NAVER shuttles.

#### **ContinualAl Non-Profit Organization**

BOARD MEMBER

• Contributed to shaping the mission and objectives of the organization. Managed membership fees. Helped organize a 24-hour virtual conference with pre-registered reports and seminars attended by over 280 participants across 36 countries.

#### Facebook AI Research (FAIR)

RESEARCH INTERN

• Developed paradigm for incremental active learning at the category level on longtailed distributions. Mentored by Dr. Arthur Szlam and Dr. Ludovic Denoyer.

### **Rochester Institute of Technology**

**GRADUATE RESEARCH ASSISTANT** 

• Developed efficient neural networks capable of incrementally learning new information without catastrophic forgetting. Mentored by Dr. Christopher Kanan.

Jan. 2025 - Present

Virtual

Grenoble, France Nov. 2022 - May 2024

#### Virtual

Virtual

May 2021 - Dec. 2021

Mar. 2022 - May 2024

#### Rochester, NY

Aug. 2017 - May 2022

CV as of October 28, 2025

#### **U.S. Naval Research Laboratory (NRL)**

**GRADUATE RESEARCH INTERN** 

Washington, DC June 2017 - Aug. 2017

- Naval Research Enterprise Internship Program (NREIP) by the American Society for Engineering Education (ASEE)
- Assessed validity of the manifold hypothesis in neural networks using dimensionality reduction and intrinsic dimension estimation. Mentored by Dr. Leslie Smith.

#### **Rochester Institute of Technology**

**GRADUATE RESEARCH ASSISTANT** 

Jan. 2016 - May 2017

Rochester, NY

• Developed a new cut cost and optimization algorithm for graph-based image segmentation with ties to manifold learning. Mentored by Dr. Nathan Cahill.

#### **UTC Aerospace Systems**

IMAGE SCIENCE INTERN

Westford, MA June 2015 - Aug. 2015

• Implemented Non-Linear Least Squares optimizer to fit functions to edge data and evaluate sensor sharpness. Quantified confidence via bootstrap resampling.

#### **Liberty Mutual Insurance**

IT ANALYST - TECHNICAL DEVELOPMENT PROGRAM

Portsmouth, NH June 2014 - Sept. 2014

 Coordinated productivity tracker improvement projects and developed workflow diagrams/traceability matrices for process improvements.

#### **Liberty Mututal Insurance**

INFORMATION TECHNOLOGY INTERN

Portsmouth, NH May 2013 - Aug. 2013

• Researched and compiled presentations on statistical models and software for predictive analytics. Developed use cases involving fraud detection and loss triangles.

## **Peer-Reviewed Publications**

- 1. **T.L. Hayes** and G.P. Krishnan. Quantifying the role of openfold components in protein structure prediction. *In: NeurIPSW: Multi-Modal Foundation Models and Large Language Models for Life Sciences*, 2025
- 2. M. Liu, **T.L. Hayes**, M. Mancini, E. Ricci, R. Volpi, and G. Csurka. Test-time vocabulary adaptation for language-driven object detection. *In: Proc. IEEE International Conference on Image Processing (ICIP)*, 2025
- 3. G. Csurka, **T.L. Hayes**, D. Larlus, and R. Volpi. What could go wrong? Discovering and describing failure modes in computer vision. *In: ECCVW: Explainable Computer Vision*, 2024
- 4. **T.L. Hayes**, C.R. de Souza, N. Kim, J. Kim, R. Volpi, and D. Larlus. Pandas: Prototype-based novel class discovery and detection. *In: Conference on Lifelong Learning Agents (CoLLAs)*, 2024
- 5. E. Verwimp, R. Aljundi, S. Ben-David, M. Bethge, A. Cossu, A. Gepperth, **T.L. Hayes**, E. Hüllermeier, C. Kanan, D. Kudithipudi, C.H. Lampert, M. Mundt, R. Pascanu, A. Popescu, A.S. Tolias, J. van de Weijer, B. Liu, V. Lomonaco, T. Tuytelaars, and G. van de Ven. Continual learning: Applications and the road forward. *In: Transactions on Machine Learning Research (TMLR)*, 2024
- 6. M. Liu, **T.L. Hayes**, E. Ricci, G. Csurka, and R. Volpi. Shine: Semantic hierarchy nexus for open-vocabulary object detection. *In: Proc. IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024 [23.6% accept rate; **Highlight Poster (2.8% accept rate)**]
- 7. M.Y. Harun\*, J. Gallardo\*, **T.L. Hayes**, R. Kemker, and C. Kanan. Siesta: Efficient online continual learning with sleep. *In: Transactions on Machine Learning Research (TMLR)*, 2023 [\* equal contribution]
- 8. M. Mundt, K.W. Cooper, D.S. Dhami, A. Ribeiro, J.S. Smith, A. Bellot, and **T.L. Hayes**. Continual causality: A retrospective of the inaugural AAAI-23 bridge program. *PMLR*, 2023
- 9. M.Y. Harun, J. Gallardo, **T.L. Hayes**, and C. Kanan. How efficient are today's continual learning algorithms? *In: CVPRW: Continual Learning in Computer Vision*, 2023

- 10. **T.L. Hayes**, M. Nickel, C. Kanan, L. Denoyer, and A. Szlam. Can I see an example? Active learning the long tail of attributes and relations. *In: British Machine Vision Conference (BMVC)*, 2022
- 11. I. Sur, Z. Daniels, A. Rahman, K. Faber, J. Gallardo, **T.L. Hayes**, C.E. Taylor, M.B. Gurbuz, J. Smith, S. Joshi, N. Japkowicz, M. Baron, Z. Kira, C. Kanan, R. Corizzo, A. Divakaran, M. Piacentino, J. Hostetler, and A. Raghavan. System design for an integrated lifelong reinforcement learning agent for real-time strategy games. *In: International Conference on AI-ML Systems*, 2022 [**Oral Presentation**]
- 12. **T.L. Hayes** and C. Kanan. Online continual learning for embedded devices. *In: Conference on Lifelong Learning Agents (CoLLAs)*, 2022
- 13. Y. Zhang, **T.L. Hayes**, and C. Kanan. Disentangling transfer and interference in multi-domain learning. *In: AAAIW: Practical Deep Learning in the Wild*, 2022
- 14. J. Gallardo, **T.L. Hayes**, and C. Kanan. Self-supervised training enhances online continual learning. *In: British Machine Vision Conference (BMVC)*, 2021 [36.2% accept rate]
- 15. **T.L. Hayes**, G.P. Krishnan, M. Bazhenov, H.T. Siegelmann, T.J. Sejnowski, and C. Kanan. Replay in deep learning: Current approaches and missing biological elements. *Neural Computation*, 2021
- 16. **T.L. Hayes** and C. Kanan. Selective replay enhances learning in online continual analogical reasoning. *In: CVPRW: Continual Learning in Computer Vision*, 2021 [**Oral Presentation**]
- 17. V. Lomonaco, L. Pellegrini, A. Cossu, A. Carta, G. Graffieti, **T.L. Hayes**, M. De Lange, M. Masana, J. Pomponi, G. van de Ven, M. Mundt, Q. She, K. Cooper, J. Forest, E. Belouadah, S. Calderara, G.I. Parisi, F. Cuzzolin, A. Tolias, S. Scardapane, L. Antiga, S. Amhad, A. Popescu, C. Kanan, J. van de Weijer, T. Tuytelaars, D. Bacciu, and D. Maltoni. Avalanche: an end-to-end library for continual learning. *In: CVPRW: Continual Learning in Computer Vision*, 2021 [Best Library Award]
- 18. R. Roady, **T.L. Hayes**, R. Kemker, A. Gonzales, and C. Kanan. Are open set classification methods effective on large-scale datasets? *PLoS ONE*, 2020
- 19. M. Acharya, **T.L. Hayes**, and C. Kanan. Rodeo: Replay for online object detection. *In: British Machine Vision Conference (BMVC)*, 2020 [29.1% accept rate]
- 20. R. Roady, **T.L. Hayes**, and C. Kanan. Improved robustness to open set inputs via tempered mixup. *In: ECCVW: Adversarial Robustness in the Real World*, 2020
- 21. **T.L. Hayes**\*, K. Kafle\*, R. Shrestha\*, M. Acharya, and C. Kanan. Remind your neural network to prevent catastrophic forgetting. *In: Proc. European Conference on Computer Vision (ECCV)*, 2020 [27.1% accept rate; \* equal contribution]
- 22. **T.L. Hayes** and C. Kanan. Lifelong machine learning with deep streaming linear discriminant analysis. *In: CVPRW: Continual Learning in Computer Vision*, 2020 [**Best Paper Award; Oral Presentation**]
- 23. R. Roady\*, **T.L. Hayes**\*, H. Vaidya, and C. Kanan. Stream-51: Streaming classification and novelty detection from videos. *In: CVPRW: Continual Learning in Computer Vision*, 2020 [\* equal contribution]
- 24. **T.L. Hayes**, N.D. Cahill, and C. Kanan. Memory efficient experience replay for streaming learning. *In: Proc. IEEE International Conference on Robotics and Automation (ICRA)*, 2019 [44.0% accept rate]
- 25. **T.L. Hayes**, R. Kemker, N.D. Cahill, and C. Kanan. New metrics and experimental paradigms for continual learning. *In: CVPRW: Real-World Challenges and New Benchmarks for Deep Learning in Robotic Vision*, 2018
- N.D. Cahill, T.L. Hayes, R.T. Meinhold, and J.F. Hamilton. Compassionately conservative balanced cuts for image segmentation. *In: Proc. IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), 2018 [29.6% accept rate]
- 27. R. Kemker, M. McClure, A. Abitino, **T.L. Hayes**, and C. Kanan. Measuring catastrophic forgetting in neural networks. *In: AAAI*, 2018 [24.6% accept rate; **Oral Presentation**]

## **Patent Applications**

- 1. G. Csurka Khedari, **T.L. Hayes**, D. Larlus, and R. Volpi. Language-based explainability of errors made by computer vision models, June 12 2025. US Patent App. 18/531,247
- 2. C. Kanan, **T.L. Hayes**, K. Kafle, and R. Shrestha. Method for training parametric machine learning systems, January 28 2021. US Patent App. 16/938,035

### **Invited Talks**

- 1. Learning beyond the training distribution: Toward adaptive and open-world learning systems. *RIT Mathematical Modeling Seminar Series* (*Upcoming*), 2025
- 2. Adapting to the unknown: Novel class discovery, open-vocabulary learning, & beyond. *ACM International Conference on Multimedia Workshop on Personalized Incremental Learning in Medicine*, 2025
- 3. Adapting to the unknown: Novel class discovery, open-vocabulary learning, & beyond. *Schloss Dagstuhl Seminar on Deep Continual Learning in the Foundation Model Era*, 2025
- 4. Adapting to the unknown: Lifelong learning, novelty discovery, & beyond. *Conference on Lifelong Learning Agents (CoLLAs)*, 2025
- 5. Live demo: From sequence to structure: Interpretability in AlphaFold. *Georgia Tech Workshop on Cyberinfrastructure and Services for Science & Engineering*, 2025
- 6. Adapting to the unknown: Lifelong learning, novelty discovery, & beyond. *ARTISAN Center at Georgia Tech*, 2024
- 7. Dynamic adaptation through lifelong & open-world learning. Italian National AI PhD Fall School, 2023
- 8. Efficient lifelong machine learning: Where have we been and where do we go next? French Alternative Energies and Atomic Energy Commission (CEA) Workshop on Continual Learning, 2023
- 9. Lifelong learning: Where do we go next? Schloss Dagstuhl Seminar on Deep Continual Learning, 2023
- 10. Real-world considerations and applications for continual machine learning. CVPR Workshop on Continual Learning in Computer Vision (CLVision), 2022
- 11. Efficient lifelong machine learning in deep neural networks. NAVER LABS Europe, 2022
- 12. Efficient lifelong machine learning in deep neural networks. *Max Planck Institute for Informatics*, 2022
- 13. Efficient lifelong machine learning in deep neural networks. *University of Alberta and Amii*, 2022
- 14. Real-world considerations and applications for continual machine learning. *Continual AI Seminar*, 2022
- 15. Replay in deep learning: Current approaches and missing biological elements. *Continual AI Reading Group*, 2021
- 16. Continual learning in deep neural networks: Methods and applications. *Open Data Science Conference East*, 2021 (joint with Christopher Kanan)
- 17. Stream-51: Streaming classification and novelty detection from videos. *Continual AI Meetup: Benchmarks and Evaluation for Continual Learning*, 2020
- 18. Remind your neural network to prevent catastrophic forgetting. *Continual AI Meetup: Continual Learning with Sequential Streaming Data*, 2020
- 19. Memory efficient experience replay for mitigating catastrophic forgetting. RIT AI Seminar Series, 2019

## **Awards & Scholarships**

• Early-Career Spotlight Program: Conference on Lifelong Learning Agents (CoLLAs)	2025
<b>Best Library Award:</b> Workshop on Continual Learning in Computer Vision (CLVision) at CVPR 2021	2021
Travel Grant: Women in Computer Vision (WiCV) Workshop at CVPR 2021	2021
<b>Best Paper Award:</b> Workshop on Continual Learning in Computer Vision (CLVision)	
at CVPR 2020	2020
Travel Grant Women in Computer Vision (WiCV) Workshop at CVPR 2020	2020
Best Poster Award: Western NY Signal Processing Workshop	2017
Scholarship: RIT Graduate Student Scholarship	2016
<ul> <li>Honor Roll Award: RIT Graduate Student Honor Roll (4.0/4.0 GPA)</li> </ul>	2016
Outstanding Teaching Assistant Award: RIT School of Mathematical Sciences	2016
Scholarship: RIT Graduate Student Scholarship	2015
Honarary Society: Alpha Sigma Lambda Honorary Society	2014
Best Mathematical Modeling Project Award: RIT School of Mathematical Sciences	2014
Best Grader Award: RIT School of Mathematical Sciences	2013
Scholarship: RIT Named Scholarship	2012
Scholarship: RIT Merit Scholarship	2011
Service	
Service  Organizer: Workshop on Open World Anomaly Detection in Dynamic and Evolving Environments at IEEE International Conference on Data Mining (ICDM)	2025
Organizer: Workshop on Open World Anomaly Detection in Dynamic and Evolving	2025 2024
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## **Technical Skills**

Deep Learning Frameworks
Scientific Computing Packages
Programming (Proficient)
Programming (Basic)
Applications

PyTorch, TensorFlow, Keras Numpy, Scipy, Scikit-learn Python, MATLAB

Java

Git, Bash Scripting, 上下X, Microsoft Office, Word, Excel, Outlook

# Teaching Experience \_\_\_\_\_

<b>Guest Discussion:</b> Discussed the pros/cons and outlook of Generative AI for research with first-year students in the RIT Mathematical Modeling PhD Program	2024
Guest Lecture: Lectured on "Lifelong Machine Learning" for Graduate Course of Hava Siegelmann (UMass Amherst)	2023
Guest Lecture: Lectured on "Lifelong Machine Learning" for Graduate Course of Christopher Kanan (RIT)	2021
Guest Lecture: Lectured on "Lifelong Machine Learning" for Graduate Course of Christopher Kanan (RIT)	2020
Guest Lecture: Lectured on "Clustering Techniques" for Graduate Course of Christopher Kanan (RIT)	2017
<ul> <li>Teaching Assistant: Graduate Course – Image Processing and Computer Vision (RIT)</li> <li>Teaching Assistant: Graduate Course – Deep Learning for Vision (RIT)</li> </ul>	2017 2016
<ul> <li>Teaching Assistant: Undergraduate Courses – Calculus (B, C, I, II) (RIT)</li> <li>Learning Assistant: Undergraduate Course – Mathematics of Graphical Simulation</li> <li>(RIT)</li> </ul>	2015-16 2014
<b>Grader:</b> Undergraduate Courses – Multivariable Calculus, Differential Equations, Probability and Statistics (RIT)	2012-13
Students Supervised	
<ul> <li>Mingxuan Liu: PhD Student at University of Trento, Italy (at NAVER LABS Europe)</li> <li>Yipeng Zhang: BS Student at University of Rochester</li> <li>Hitesh Vaidya: MS Student at Rochester Institute of Technology</li> <li>Xuexun Xiao: MS Student at University of Rochester</li> <li>Michael Geraci: HS Student</li> </ul>	2023-24 2020-21 2019 2019 2018
Reviewer	
NeurIPS Workshop on The Reach and Limits of AI for Scientific Discovery	2025
NeurIPS Workshop on Multi-Modal Foundation Models and Large Language Models for Life Sciences	2025
International Conference on Learning Representations (ICLR)	2025
ContinualAl Unconference	2023
Conference on Lifelong Learning Agents (CoLLAs) [Senior Reviewer]	2023-25
Journal of Machine Learning Research (JMLR)	2023
IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2022-25
Frontiers in Neurorobotics	2021
• IEEE Access	2020
Duitiele Mareleine Wieien Confessore (DMVC)	
British Machine Vision Conference (BMVC)  CVDD Workshop on Continued Learning in Computer Vision (CLVision)	2020-22
<ul> <li>CVPR Workshop on Continual Learning in Computer Vision (CLVision)</li> </ul>	2020-23
<ul><li>CVPR Workshop on Continual Learning in Computer Vision (CLVision)</li><li>IEEE Transactions on Neural Networks and Learning Systems</li></ul>	2020-23 2020-21
<ul> <li>CVPR Workshop on Continual Learning in Computer Vision (CLVision)</li> </ul>	2020-23