

Hoan Duc NGUYEN

CONTACT INFORMATION	Johann Radon Institute for Computational and Applied Mathematics of the Austrian Academy of Sciences Altenberger Straße 69 4040 Linz, Austria.	<i>Mobile:</i> +43 677 6373 4511 <i>E-mail:</i> duc.hoan.hus@gmail.com <i>Website:</i> https://hoannguyen92.github.io
RESEARCH INTERESTS	Domain Adaptation, Machine Learning, Learning Theory, Inverse Problems	
EMPLOYMENT	<ul style="list-style-type: none">Postdoctoral at RICAM, Austrian Academy of Sciences, AustriaPh.D. candidate at RICAM, Austrian Academy of Sciences, AustriaResearcher in Artificial Intelligence Laboratory, Thang Long UniversityLecturer in Department of Mathematics and Informatics, Thang Long University	2024 - present 2020 - 2023 2019 - 2020 2018 - 2020
EDUCATION	<ul style="list-style-type: none">Ph.D. at Johannes Kepler University, Linz, Austria<ul style="list-style-type: none">Supervisors: Prof. Sergei Pereverzyev, Prof. Bernhard A. Moser, and Dr. Werner ZellingerThesis: Regularization in Reproducing Kernel Hilbert Spaces for Covariate Shift Domain AdaptationMaster ACSYON at University of Limoges, Limoges, France<ul style="list-style-type: none">Advisors: Prof. Jean-Guy Caputo and Prof. Arnaud Knippel.Master Thesis: Inverse source problem in a forced wave graph.Bachelor of Mathematics in Hanoi University of Science, Vietnam<ul style="list-style-type: none">Senior Advisor: Professor Ho Dang PhucSenior Thesis: Statistical Methods in Quality Control.	Sep 2020 - Nov 2023 2016 - 2017 2010 - 2014
PUBLICATIONS	<ul style="list-style-type: none">M.-C. Dinu, M. Holzleitner, M. Beck, D. H. Nguyen, A. Huber, H. Eghbal-zadeh, B. Moser, S. V. Pereverzyev, S. Hochreiter, and W. Zellinger. <i>Addressing parameter choice issues in unsupervised domain adaptation by aggregation</i>. In: International Conference on Learning Representations (ICLR), selected as notable-top-5% paper, 2023.E. R. Gizewski, L. Mayer, B. A. Moser, D. H. Nguyen, S. Pereverzyev Jr, S. V. Pereverzyev, N. Shepeleva, and W. Zellinger. <i>On a regularization of unsupervised domain adaptation in RKHS</i>. Applied and Computational Harmonic Analysis, 57:201–227, 2022.W. Zellinger, N. Shepeleva, M. Dinu, H. Eghbal zadeh, D. H. Nguyen, B. Nessler, S. Pereverzyev, and B. A. Moser. <i>The balancing principle for parameter choice in distance-regularized domain adaptation</i>. Advances in Neural Information Processing Systems, 2021.	
PREPRINTS	<ul style="list-style-type: none">D. H. Nguyen, W. Zellinger, and S. Pereverzyev. <i>On regularized Radon-Nikodym differentiation</i>. Submitted, 2023. Available at https://arxiv.org/abs/2308.07887D. H. Nguyen, S. Pereverzyev, and W. Zellinger. <i>General regularization in covariate shift adaptation</i>. Submitted, 2023. Available at https://arxiv.org/abs/2307.11503	

RESEARCH EXPERIENCES	<ul style="list-style-type: none"> Reviewer for NeurIPS 2023, ICML 2024 conferences Work on the skin fungal diseases detection project Torus Company, Toulouse, France and Artificial Intelligence Lab, Thang Long University <ul style="list-style-type: none"> Collecting images of fungal diseases, processing data, and constructing classification models Work on the Hanoi Formal Abstract project University of Pittsburgh, Carnegie Mellon University, and Thang Long University <ul style="list-style-type: none"> Formalizing theorems of "top 100" of mathematical theorems in Lean Internship in Hanoi Institute of Mathematics, Vietnam <ul style="list-style-type: none"> Advisor: Prof. Dinh Nho Hao. Subject: Inverse source problem. Internship in INSA, Rouen, France <ul style="list-style-type: none"> Advisor: Prof. Jean-Guy Caputo and Prof. Arnaud Knippel. Subject: Inverse source problem in a forced wave graph. 	2019 - 2020 2018 - 2020 Oct, 2017 - Dec, 2018 Mar - Aug, 2017
TEACHING EXPERIENCES	<ul style="list-style-type: none"> Exercise session: Mathematics for AI, Summer and Winter semesters in 2022, 2023. Exercise session: Discrete Mathematics , Spring and Fall semesters in 2019. 	
AWARDS AND FELLOWSHIPS	<ul style="list-style-type: none"> Master scholarship, LabEX Sigma Lim, University of Limoges, France. Annual Scholarship for excellent students, Vietnam National University. 	2016 - 2017 2012 - 2014
COMPUTER SKILLS	<ul style="list-style-type: none"> Software: MATLAB, PyTorch, TensorFlow. Programming: C/C++, Python, Lean. 	
REFERENCES	<ul style="list-style-type: none"> ★ Prof. Dr. Sergei Pereverzyev Johann Radon Institute for Computational and Applied Mathematics Austrian Academy of Sciences Email: sergei.pereverzyev@oeaw.ac.at ★ Priv.-Doz. Dr. Bernhard Moser Software Competence Center Hagenberg Email: bernhard.moser@scch.at ★ Dr. Werner Zellinger Johann Radon Institute for Computational and Applied Mathematics Austrian Academy of Sciences Email: werner.zellinger@ricam.oeaw.ac.at ★ Prof. Dinh Nho Hao Hanoi Institute of Mathematics Vietnam Academy of Science and Technology Email: hao@math.ac.vn ★ Prof. Jean-Guy Caputo Laboratoire of Mathematiques INSA de Rouen Email: caputo@insa-rouen.fr 	