

TrungTin Nguyen

Long Curriculum Vitae

Postdoctoral Research Fellow

The University of Queensland

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📄 [Homepage](https://trung-tinnnguyen.github.io): trung-tinnnguyen.github.io

🔗 [Short CV Version](#), April 22, 2024



"The book of nature is written in the language of mathematics." (Galileo G., 1890).

"Essentially, all models are wrong, but some models that know when they are wrong, are useful." (adapted from George E.P. Box, 1979).

Academic Appointment

- 04/12/2023–
present **Postdoctoral Research Fellow**, [School of Mathematics and Physics, The University of Queensland](#), Brisbane, Australia.
Topic: Mathematical analysis of operator learning with artificial neural networks.
Mentors: [Hien Duy Nguyen](#), and [Xin Guo](#).
- 01/05/2023–
30/09/2023 **Postdoctoral Research Fellow (Contract UGA, MIAI Grenoble Alpes)**, [Statify Team, Inria centre at the University Grenoble Alpes](#), Grenoble, France.
Topic: Bayesian model selection and simulated-based inference for complex and high-dimensional models.
Mentors: [Florence Forbes](#), and [Julyan Arbel](#).
- 01/01/2022–
30/04/2023 **Postdoctoral Research Fellow (Contract Inria)**, [Statify Team, Inria centre at the University Grenoble Alpes](#), Grenoble, France.
+01/11/2023–
30/11/2023 **Topic**: Bayesian model selection and simulated-based inference for complex and high-dimensional models.
Mentors: [Florence Forbes](#), and [Julyan Arbel](#).

Education

- 2019–2022 **Doctor of Philosophy**, [Normandie Université](#), Caen, France.
Major in Statistics and Data Science.
Thesis title: [Model selection and approximation in high-dimensional mixture of experts models: from theory to practice](#).
Advisors: [Faïcel Chamroukhi](#). **Rapporteurs**: [Sylvain Arlot](#), and [Judith Rousseau](#).
Committee members: [Christophe Biernacki](#), [Hien Duy Nguyen](#), and [Gaëlle Chagny](#).
- 2017–2019 **Master of Science, Technology and Health**, [Université d'Orléans](#), Orléans, France, GPA: 18/20.
Mention: *Très Bien*. Major in Applied Mathematics.
Thesis title: Reinforcement learning for resource allocation problems using a partially observable Markov decision process.
Advisor: [Le Thi Hoai An](#).
- 2013–2017 **Bachelor of Science**, [Vietnam National University-Ho Chi Minh University of Science \(VNU-HCM\)](#), Ho Chi Minh City, Vietnam, GPA: 9.17/10. Rank: 2/1557, Summa Cum Laude.
Honors Program in Mathematics and Computer Science. Major in Probability and Statistics.
Thesis title: Multiplicative censoring model.
Advisor: [Dang Duc Trong](#).
- 2010–2013 **High School for the Gifted**, [Hung Vuong High School for the Gifted](#), Binh Duong, Vietnam, Summa Cum Laude.
- 2006–2010 **Secondary School**, [Nguyen Quoc Phu Secondary School](#), Binh Duong, Vietnam, Summa Cum Laude.
- 2001–2006 **Primary School**, [Tan Vinh Hiep A Primary School](#), Binh Duong, Vietnam, Summa Cum Laude.

Research Interests

- Statistical learning** [Model selection](#) (minimal penalties and slope heuristics, non-asymptotic oracle inequalities), [simulation-based inference](#) (approximate Bayesian computation, Bayesian synthetic likelihood, method of moments), [Bayesian nonparametrics](#) (Gibbs-type priors, Dirichlet process mixture), [high-dimensional statistics](#) (variable selection via Lasso and penalization, graphical models), [uncertainty estimation](#).
- Machine learning** [Supervised learning](#) (deep hierarchical mixture of experts, deep neural networks), [unsupervised learning](#) (clustering via mixture models, dimensionality reduction via principal component analysis, deep generative models via variational autoencoders, generative adversarial networks and normalizing flows), [reinforcement learning](#) (partially observable Markov decision process).
- Optimization** [Robust and effective optimization algorithms for mixture models](#) (expectation–maximization, variational Bayesian expectation–maximization, Markov chain Monte Carlo methods), [difference of convex algorithm](#), [optimal transport](#) (Wasserstein distance, voronoi loss function)
- Applications** [Natural language processing](#) (large language model), [remote sensing](#) (planetary science, e.g., retrieval of Mars surface physical properties from hyper-spectral images), [signal processing](#) (sound source localization), [biostatistics](#) (genomics, transcriptomics, proteomics), [computer vision](#) (image segmentation), [quantum chemistry, drug discovery, and materials science](#) (supervised and unsupervised learning on molecular modeling).

Publications

Total 5 Journal Publications + 9 Conference Publications + 8 Preprints.

[Deep neural networks](#)

- 2024 Quang Pham, Giang Do, Huy Nguyen, TrungTin Nguyen, Chenghao Liu, Mina Sartipi, Binh T Nguyen, Savitha Ramasamy, Xiaoli Li, Steven Hoi, and Nhat Ho. [CompeteSMoE–Effective Training of Sparse Mixture of Experts via Competition](#). *arXiv preprint arXiv:2402.02526*, 2024.
- 2024 Duy MH Nguyen, Nina Lukashina, Tai Nguyen, An T Le, TrungTin Nguyen, Nhat Ho, Jan Peters, Daniel Sonntag, Viktor Zaverkin, and Mathias Niepert. [Structure-Aware E\(3\)-Invariant Molecular Conformer Aggregation Networks](#). *arXiv preprint arXiv:2402.01975*, 2024.
- 2023 Truong Giang Do, Huy Khiem Le, Quang Pham, TrungTin Nguyen, Binh T. Nguyen, Thanh-Nam Doan, Chenghao Liu, Savitha Ramasamy, Xiaoli Li, and Steven Hoi. [HyperRouter: Towards Efficient Training and Inference of Sparse Mixture of Experts](#). In *Proceedings of the 2023 Empirical Methods in Natural Language Processing, EMNLP 2023 Main*, Acceptance rate 14% over 1041 submissions, December 2023.

[Approximation capabilities and convergence rates of the mixture of experts models](#)

- 2024 Huy Nguyen, TrungTin Nguyen, Khai Nguyen, and Nhat Ho. [Towards Convergence Rates for Parameter Estimation in Gaussian-gated Mixture of Experts](#). In *Proceedings of The 27th International Conference on Artificial Intelligence and Statistics, AISTATS 2024*, Acceptance rate 27.6% over 1980 submissions, May 2024.
- 2024 Mark Chiu Chong, Hien Duy Nguyen, and TrungTin Nguyen. [Risk Bounds for Mixture Density Estimation on Compact Domains via the h-Lifted Kullback–Leibler Divergence](#). *arXiv preprint arXiv:2404.12586*, 2024.
- 2023 Huy Nguyen, TrungTin Nguyen, and Nhat Ho. [Demystifying Softmax Gating Function in Gaussian Mixture of Experts](#). In *Advances in Neural Information Processing Systems, NeurIPS 2023 Spotlight*, Acceptance rate 3.6% over 12343 submissions, December 2023.
- 2023 Huy Nguyen, Pedram Akbarian, TrungTin Nguyen, and Nhat Ho. [A General Theory for Softmax Gating Multinomial Logistic Mixture of Experts](#). *arXiv preprint arXiv:2310.14188*, October 2023.

- 2022 TrungTin Nguyen, Faicel Chamroukhi, Hien D. Nguyen, and Geoffrey J. McLachlan. [Approximation of probability density functions via location-scale finite mixtures in Lebesgue spaces](#). **Communications in Statistics - Theory and Methods**, pages 1–12, May 2022.
- 2021 Hien Duy Nguyen, TrungTin Nguyen, Faicel Chamroukhi, and Geoffrey John McLachlan. [Approximations of conditional probability density functions in Lebesgue spaces via mixture of experts models](#). **Journal of Statistical Distributions and Applications**, volume 8, page 13, 2021.
- 2020 TrungTin Nguyen, Hien D Nguyen, Faicel Chamroukhi, and Geoffrey J McLachlan. [Approximation by finite mixtures of continuous density functions that vanish at infinity](#). **Cogent Mathematics & Statistics**, volume 7, page 1750861. Cogent OA, 2020.

Model selection

- 2023 TrungTin Nguyen, Dung Ngoc Nguyen, Hien Duy Nguyen, and Faicel Chamroukhi. [A non-asymptotic risk bound for model selection in high-dimensional mixture of experts via joint rank and variable selection](#). In **Australasian Joint Conference on Artificial Intelligence 2023, AJCAI 2023 Long Oral Presentation**, Acceptance rate 11% over 213 submissions, Brisbane, Australia, November 2023.
- 2022 TrungTin Nguyen, Hien Duy Nguyen, Faicel Chamroukhi, and Florence Forbes. [A non-asymptotic approach for model selection via penalization in high-dimensional mixture of experts models](#). **Electronic Journal of Statistics**, volume 16, pages 4742 – 4822, 2022. Publisher: Institute of Mathematical Statistics and Bernoulli Society.
- 2022 TrungTin Nguyen, Faicel Chamroukhi, Hien Duy Nguyen, and Florence Forbes. [Model selection by penalization in mixture of experts models with a non-asymptotic approach](#). In **JDS 2022 - 53èmes Journées de Statistique de la Société Française de Statistique (SFdS)**, Lyon, France, June 2022.
- 2021 TrungTin Nguyen, Faicel Chamroukhi, Hien Duy Nguyen, and Florence Forbes. [Non-asymptotic model selection in block-diagonal mixture of polynomial experts models](#). *arXiv preprint arXiv:2104.08959*, 2021.
- 2021 TrungTin Nguyen. [Model Selection and Approximation in High-dimensional Mixtures of Experts Models: From Theory to Practice](#). Ph.D. Thesis, Normandie Université, December 2021.
- 2020 TrungTin Nguyen, Hien D Nguyen, Faicel Chamroukhi, and Geoffrey J McLachlan. [An \$l_1\$ -oracle inequality for the Lasso in high-dimensional mixtures of experts models](#). *arXiv preprint arXiv:2009.10622*, 2020.

Bayesian nonparametrics

- 2023 TrungTin Nguyen, Florence Forbes, Julyan Arbel, and Hien Duy Nguyen. [Bayesian nonparametric mixture of experts for high-dimensional inverse problems](#). *Preprint. hal-04015203*, March 2023.
- 2022 TrungTin Nguyen, Florence Forbes, and Julyan Arbel. [Bayesian nonparametric mixture of experts for high-dimensional inverse problems](#). In **BNP13 – 13th Conference on Bayesian Nonparametrics**, Puerto Varas, Chile, 2022.

Simulation-based inference

- 2024 Florence Forbes, Hien Duy Nguyen, and TrungTin Nguyen. [Bayesian Likelihood Free Inference using Mixtures of Experts](#). In **International Joint Conference on Neural Networks, IJCNN 2024**, June 2024.
- 2023 Hien Duy Nguyen, TrungTin Nguyen, Julyan Arbel, and Florence Forbes. [Concentration results for approximate Bayesian computation without identifiability](#). *Preprint. hal-03987197*, February 2023.
- 2022 Florence Forbes, Hien Duy Nguyen, TrungTin Nguyen, and Julyan Arbel. [Supporting Information Summary statistics and discrepancy measures for approximate Bayesian computation via surrogate posteriors](#). **Statistics and Computing**, volume 32, page 85, October 2022.
- 2022 Florence Forbes, Hien Duy Nguyen, TrungTin Nguyen, and Julyan Arbel. [Mixture of expert posterior surrogates for approximate Bayesian computation](#). In **JDS 2022 - 53èmes Journées de Statistique de la Société Française de Statistique (SFdS)**, Lyon, France, June 2022.

- 2022 Florence Forbes, Hien Duy Nguyen, TrungTin Nguyen, and Julyan Arbel. [Summary statistics and discrepancy measures for approximate Bayesian computation via surrogate posteriors](#). **Statistics and Computing**, volume 32, page 85, October 2022.
- 2021 Julyan Arbel, Florence Forbes, Hien Duy Nguyen, and TrungTin Nguyen. [Approximate Bayesian computation with surrogate posteriors](#). In *ISBA 2021 - World Meeting of the International Society for Bayesian Analysis*, Marseille, France, June 2021.

Fellowships and Awards

- 06/2024 [Early Career Travel Award](#) (1000 AUD) granted by [The Ninth Pacific Rim Conference in Mathematics](#).
- 2023–2024 Postdoctoral Research Fellowships granted by [Australian Research Council Discovery Projects 230100905](#), [The University of Queensland](#), Australia.
- 10/2022 [BNP13 Junior Travel Award](#) (1000 USD) granted by [International Society for Bayesian Analysis](#).
- 2022–2025 [Qualifications aux fonctions de Maître de Conférences](#). Section 26. [Mathématiques appliquées et applications des mathématiques](#). **Designated rapporteurs:** [Fabienne Comte](#), and [Fanny Villers](#).
- 2022–2023 Postdoctoral Fellowships granted by [Inria centre at the University Grenoble Alpes](#) and [MIAI Grenoble Alpes](#)), France.
- 2018–2021 Ph.D. Scholarship granted by [Ministère de l'Enseignement Supérieur et de la Recherche](#), France.
- 2017 Highest Distinction Graduation Award and Outstanding Student Award, [VNU-HCM](#), Vietnam
- 2014–2017 Scholarship of the National Program for the Development of Mathematics 2010–2020 of [Vietnam Institute for Advanced Study in Mathematics \(VIASM\)](#), Vietnam.

Teaching Experiences

- 02-06/2024: [Introduction to Data Science \(DATA7001\)](#) (**Guest Lecturer, Tutorial Content and Practical Session, 13h**). **Responsible professor:** [Xin Guo](#), [Postgraduate Coursework, The University of Queensland](#), Australia.
- 01-04/2023: [Statistical analysis and document mining](#) (**Lecturer for Complementary Course, 16.5h**). **Responsible professor:** [Pedro Rodrigues](#), [Master 1 of Applied Mathematics, Université Grenoble Alpes](#), France.
- 09-12/2022: [Méthodes statistiques pour la biologie - STA301](#) (**Lecturer and Tutorial Content, 23h**). **Responsible professor:** [Julien Chevallier](#), [Licence Sciences et Technologies - BIO, Université Grenoble Alpes](#), France.
- Fall 2018: [Mathematical and numerical foundations of modeling and simulation using partial differential equations](#) (**Lecturer for Preparatory Course, 24h**). **Responsible professor:** [Jing-Rebecca Li \(IDEFIX team, Inria\)](#), [French-Vietnam Master 2 in Applied Mathematics, VNU-HCM](#), Vietnam.
- Fall 2017: [Principles of Mathematical Analysis](#) (**Teaching Assistant, 30h**). **Responsible professor:** [Duong Minh Duc](#), [Bachelor in Mathematics and Computer Science, VNU-HCM](#), Vietnam.

Collaborators (in random order)

1. [Geoff McLachlan](#): Professor of Statistics (Personal Chair), [School of Mathematics and Physics, The University of Queensland](#), Brisbane, Australia.
2. [Florence Forbes](#): Senior Researcher (Director of Research), [Statify Team, Inria centre at the University Grenoble Alpes](#), Grenoble, France.
3. [Faïcel Chamroukhi](#): Professor of Statistics and Data Science, [Université de Caen Normandie, Lab. of Mathematics Nicolas Oresme \(LMNO\), UMR CNRS 6139](#); Scientific head of Data Science and Artificial Intelligence, [IRT SystemX](#), the Research & Technology Organisation of [Université Paris-Saclay](#), Palaiseau, France.
4. [Hien Duy Nguyen](#): Associate Professor, [School of Computing, Engineering and Mathematical Sciences, La Trobe University](#), Bundoora, Victoria, Australia; and Professor, [Institute of Mathematics for Industry, Kyushu University](#), Fukuoka, Japan.

5. [Nhat Ho](#): Assistant Professor, [Department of Statistics and Data Sciences](#), [The University of Texas at Austin](#), Austin, Texas, United States.
6. [Julyan Arbel](#): Associate Researcher (Chargé de Recherche), [Statify Team](#), [Inria centre at the University Grenoble Alpes](#); [Laboratoire Jean Kuntzmann](#), member of [Université Grenoble Alpes Grenoble](#), Grenoble, France.
7. [Binh Nguyen](#): Associate Professor of Computer Science and the Head of the Department of Computer Science, [Faculty of Mathematics and Computer Science](#), [University of Science \(VNUHCM-US\)](#), [Vietnam National University \(VNUHCM\)](#), Ho Chi Minh City, Vietnam.
8. [Quang Pham](#): Research Scientist, [Machine Intellection department](#), [Institute for Infocomm Research \(I2R\)](#), [A*Star](#), Singapore.
9. [Huy Nguyen](#): PhD Candidate, [Department of Statistics and Data Sciences](#), [The University of Texas at Austin](#), Austin, Texas, United States.
10. [Khai Nguyen](#): Phd Candidate, [Department of Statistics and Data Sciences](#), [The University of Texas at Austin](#), Austin, Texas, United States.
11. [Dung Ngoc Nguyen](#): Postdoctoral Research Fellow, [Department of Statistical Sciences](#), [University of Padova](#), Padova, Italy.
12. [Ho Minh Duy Nguyen](#): PhD Candidate, [Max Planck Research School for Intelligent Systems & DFKI](#), Stuttgart, Germany.
13. [Giang Truong Do](#): Master's Student, [The University of Tennessee at Chattanooga](#), Tennessee, United States.
14. [Le Huy Khien](#): PhD Student, [University of Notre Dame](#), Indiana, United States.

Professional Services

Journal Reviewing (See certificate)

[Journal of the American Statistical Association \(Taylor Francis\)](#): 2 papers.

[Statistics and Computing \(Springer\)](#): 2 papers.

[Computational Statistics and Data Analysis \(Elsevier\)](#): 4 papers.

[Neurocomputing \(Elsevier\)](#): 1 paper.

[Biometrical Journal \(Wiley\)](#): 2 papers.

[Australian & New Zealand Journal of Statistics \(Wiley\)](#): 2 paper.

[Communications in Statistics - Theory and Methods \(Taylor Francis\)](#): 2 papers.

Conference Reviewing

[The 62nd Annual Meeting of the Association for Computational Linguistics \(ACL 2024\)](#): 3 papers

Editorial Board/Program Committee

[The Queensland Branch of the Statistical Society of Australia \(SSA QLD 2024\)](#): General Councillor

[Proceedings of the Research School on Statistics and Data Science \(RSSDS 2019\) \(Springer\)](#): 2 papers

[International Journal of Machine Intelligence and Sensory Signal Processing \(Inderscience\)](#): Associate Editors

Professional Memberships

03/2024 [Statistical Society of Australia \(SSA\)](#).

08/2021 [Institute of Mathematical Statistics \(IMS\)](#).

01/2020 [International Society for Bayesian Analysis \(ISBA\)](#).

01/2022 [Société Française de Statistique \(SFdS\)](#).

Conference, Seminar, Workshop Presentations

07/2024 Demystifying parameter estimation in Gaussian mixtures of experts at [Bayesian Learning and Network Analysis Workshop](#), Vietnam Institute for Advanced Study in Mathematic, Hanoi, Vietnam (Invited Speaker).

- 07/2024 Bayesian Likelihood Free Inference Using Mixtures of Experts at [The IEEE World Congress on Computational Intelligence](#), Yokohama, Japan (Oral presentation).
- 06/2024 Demystifying parameter estimation in Gaussian mixtures of experts at [The Ninth Pacific Rim Conference in Mathematics](#), Mathematical Sciences Institute (MSI), Australian National University (ANU), Darwin, Australia (Contributed Talk and Poster Session).
- 08/2023 Summary statistics and discrepancy measures for approximate Bayesian computation via surrogate posteriors at [The 10th Vietnam Mathematical Congress](#), Da Nang, Vietnam (Oral presentation).
- 07/2023 Summary statistics and discrepancy measures for approximate Bayesian computation via surrogate posteriors at [Summer school on Bayesian statistics and computation](#), Ho Chi Minh, Vietnam (Poster presentation).
- 12/2022 A non-asymptotic approach for model selection via penalization in high-dimensional mixture of experts models at [2022 IMS International Conference on Statistics and Data Science \(ICSDS\)](#), Florence, Italy (Oral presentation).
- 11/2022 A non-asymptotic approach for model selection via penalization in high-dimensional mixture of experts models at [Séminaire Données et Aléatoire Théorie & Applications](#), Laboratoire Jean Kuntzmann, Grenoble, France (Invited Speaker).
- 10/2022 Bayesian nonparametric mixture of experts for high-dimensional inverse problems at [BNP13 – 13th Conference on Bayesian Nonparametrics](#), Puerto Varas, Chile (Oral presentation).
- 06/2022 Model selection by penalization in mixture of experts models with a non-asymptotic approach at [JDS 2022 - 53èmes Journées de Statistique de la Société Française de Statistique \(SFdS\)](#), Lyon, France (Oral presentation).
- 05/2022 A non-asymptotic approach for model selection via penalization in high-dimensional mixture of experts models at [Seminar on Applied Statistics](#), Vietnam Institute for Advanced Study in Mathematics, Vietnam (Invited Speaker).
- 04/2022 A non-asymptotic approach for model selection via penalization in mixture of experts models at [Statlearn 2022](#), Institut d'Etudes Scientifiques de Cargèse, Corsica (Poster presentation)
- 03/2022 A non-asymptotic model selection in mixture of experts models at [Séminaire de Statistique Rennais, ENSAI École Nationale de Statistique et Analyse de l'Information](#), Rennes, France (Invited Speaker).
- 10/2021 Model Selection and Approximation in High-dimensional mixture of experts Models: From Theory to Practice at [Jed 2021: Journée scientifique de l'École Doctorale 2021](#), Le Havre, France (Oral presentation).
- 09/2021 Approximation and non-asymptotic model selection in mixture of experts models at [Journée Thématique: "Intelligence Artificielle - Applications et défis mathématiques"](#), INSA Rouen Normandie, Rouen, France (Poster session).
- 06/2021 Non-asymptotic model selection in mixture of polynomial experts models at [MHC2021 Mixtures Hidden Markov model Clustering](#), Institut de Mathématique d'Orsay, Paris, France (Poster session).
- 04/2021 Non-asymptotic model selection for the Gaussian-gated localized mixture of experts regression models at [MiMo 2021: Workshop on Mixture Models](#), Laboratoire de Mathématiques Raphaël Salem, Université de Rouen Normandie, France (Invited speaker).

Projects

- 2023–2026 **Member of the WOMBAT (Variance-reduced Optimization Methods and Bayesian Approximation Techniques for scalable inference).**
- Principal investigator:
 - [Florence Forbes](#) (Statify Inria Grenoble, France),
 - [Hien Duy Nguyen](#) (School of Computing, Engineering and Mathematical Sciences, La Trobe University, Bundoora, Victoria, Australia).
 - Other participants:
 - Queensland University of Technology, Brisbane, Australia,
 - The University of Queensland, Brisbane, Australia,
 - Swinburne University of Technology, Melbourne, Australia
 - The University of Adelaide, Australia.
 - Université de Caen Normandie, France.
 - Website: <https://team.inria.fr/statify/projects/WOMBAT/>
- 2019–2021 **Member of the LANDER (Latent Analysis, Adversarial Networks, and DimEnsionality Reduction).**
- Principal investigator:
 - [Florence Forbes](#) (Mistis Inria Grenoble Rhone-Alpes, France),
 - [Hien Duy Nguyen](#) (School of Mathematics and Physics, The University of Queensland, Australia).
 - Other participants:
 - Queensland University of Technology, Brisbane, Australia,
 - Swinburne University of Technology, Melbourne, Australia
 - Université de Caen Normandie, France.
 - Website: <https://team.inria.fr/statify/projects/lander/>
 - My contributions in this project: [A non-asymptotic approach for model selection via penalization in high-dimensional mixture of experts models](#). *Electronic Journal of Statistics*, 2022.

Selected Academic Experiences

- 12/2022 **Accomplished an online course Machine Learning Specialization**, *Stanford University, USA*, instructed by [Professor Andrew Ng et al.](#)
- Including 3 courses:
- Supervised Machine Learning: Regression and Classification. Grade: 100%.
 - Advanced Learning Algorithms. Grade: 100%.
 - Unsupervised Learning, Recommenders, Reinforcement Learning. Grade: 100%.
- Course Certificates:
<https://coursera.org/share/a9473e1b59c38bbde2f413bed53f3ebf>
- 07/2019 **Participated in 3rd International Summer School on Deep Learning (39 hours)**, *Warsaw, Poland*.
- Including some featured courses:
- *Deep Generative Models* by [Aaron Courville](#) (University of Montréal, Canada).
 - *Dive into Deep Learning* by [Alex Smola](#) (Amazon, USA).
 - *Mathematics of Deep Learning* by [Rene Vidal](#) (Johns Hopkins University, USA).
- 06-09/2018 **Accomplished an online course Deep Learning Specialization**, *Stanford University, USA*, instructed by [Professor Andrew Ng et al.](#)
- Including 5 courses:
- Neural Networks and Deep Learning. Grade: 100%.
 - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization. Grade: 100%.
 - Structuring Machine Learning Projects. Grade: 98.3%.
 - Convolutional Neural Networks. Grade: 98.9%.
 - Sequence Models. Grade: 100%.
- Course Certificates:
<https://coursera.org/share/3d5d2ffa4a112d75883b62a22d4a132c>

Languages

Vietnamese **Mother tongue**

English **IELTS 7.0/9.0 (2017)**

Excellent reading and listening skills, good at writing and speaking.

French **Intermediate B1-B2**

Good reading and writing skills, can understand isolated sentences and common phrases in listening and speaking.

Computer Skills

Programming Languages Advanced R, Advanced Python (Pytorch, Sci-kit Learn, Numpy, Matplotlib), MATLAB, C++, SAS.

Operating Systems Linux, macOS, Microsoft Windows.

Softwares Softwares: LaTeX, Microsoft Offices.

Referees

Hien Duy Nguyen

Associate Professor

*School of Computing, Engineering
and Mathematical Sciences*

La Trobe University, Australia

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Geoffrey McLachlan

Professor of Statistics

School of Mathematics and Physics

The University of Queensland, Australia

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Florence Forbes

Senior Researcher

Head of the Statify team

Inria centre at the University Grenoble Alpes, France

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Nhat Ho

Assistant Professor

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The University of Texas at Austin, United States

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Faïcel Chamroukhi

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IRT SystemX, France

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Julyan Arbel

Associate Researcher

Associate Researcher of the Statify team

Inria centre at the University Grenoble Alpes, France

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Le Thi Hoai An

Full Professor of Exceptional Class

Director of Computer science and Applications Department

University of Lorraine, France

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