Thi Phuong Thuy **Vo**

GRADUATE TEACHING ASSISTANT AND RESEARCHER · PHD IN APPLIED MATHEMATICS

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Personal Information

Full name Vo Thi Phuong Thuy.

Day of birth 25/09/1992.

Sex Female.

Place of birth Quang Ngai, VIETNAM.

Nationality Vietnamese.

Work address Université Gustave Eiffel, 5 Boulevard Descartes, 77420 Champs-sur-Marne, France.

Marital Status Single.

Education _

University Paris 13

Villetaneuse, France

Sep. 2016 - Aug. 2019

PHD STUDENT IN APPLIED MATHEMATICS

• Thesis: Exploration of random graphs by the method Respondent Driven Sampling.

• Supervisor: Jean-Stéphane Dhersin (University Sorbonne Paris Nord).

• Co-supervisor: Viet Chi Tran (University Gustave Eiffel).

University Sorbonne Paris Nord

Master 2

Villetaneuse, France

Sep. 2015-Aug. 2016

Institute of Mathematics

Master 1

Hanoi, Vietnam

Sep. 2014-Aug. 2015

University of Education - Hue University

BACHELOR OF PEDAGOGY IN MATHEMATICS

Hue, Vietnam

Sept. 2010-Jul. 2014

Teaching Experience ____



University Gustave Eiffel

Champs-sur-Marne, France

ATTACHÉ TEMPORAIREMENT D'ENSEIGMENT ET DE RECHERCHE (ATER)

Sept. 2020 - Now

Graduate teaching assistant to Mathematics courses:

- Probability and Statistics for the 2nd-year of Economics and Managements.
- Analysis for the 1st-year of Economics and Managements.
- Statistics for the 1st-year Economics and Managements.



Institute Galilée-University Sorbonne Paris Nord

Villetaneuse, France

Attaché Temporairement d'Enseigment et de Recherche (ATER)

Sep. 2019 - Aug. 2020

Graduate teaching assistant to Probability and Statistics courses:

- Probability and Statistics for 2nd-year of Engineers.
- Probability and Statistics for 2nd-year of Informatics.
- Linear Algebra and Probability for 2nd-year of Physics.
- Statistics for 2nd-year of Mathematics.
- Programming in MATLAB® for studying Statistics.



Institute Galilée-University Sorbonne Paris Nord

Monitor and teaching assistant to Mathematics courses

Villetaneuse, France Sept 2017 - Sept. 2019

Graduate teaching assistant to Mathematics courses:

- General Mathematics for pre-college students L0.
- Analysis 1 and 2 for students in Mathematics and Informatics.
- Algebra for students in Mathematics and Informatics.

Research Experience _



Teaching assistant and associated researcher

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Université Gustave Eiffel, France

Sept. 2020 - Now

Attaché Temporairement d'Enseigment et de Recherche (ATER)

Associated researcher at the Departement of Mathematics (LAMA):

• Study the topology of sub-graphs explored by the RDS on the configuration models.



LAGA-University Paris 13

Villetaneuse, France

Sept. 2016 - Aug. 2020

PHD STUDENT IN APPLIED MATHEMATICS

Study the structure of random graphs explored by the Respondent Driven Sampling (RDS) method:

- Describe rigorously the random graphs explored by the RDS method on the Erdös-Rényi model.
- Extend the convergence results to the Stochastic Block Model (SBM).
- Study the topology of subgraphs explored by a random walk and develop an estimator for dense SBM-graphon.
- Programming language: R.

Cemracs 2018:

Luminy, Marseille, France

Research Project: Machine learning tools for biological data assimilation.

Jul. 2018 - Aug. 2018

Description: Construction of a Machine Learning tool based on Differential Equations integrated into a dynamic tree allowing biological data assimilation.

- Use a Data-Model Coupling approach to build a biomimetic Statistical Learning tool taking into account some aspects of the biological dynamics of animal body.
- Programming languages: Python, Matlab.

Publications _____

Journals and Proceedings

- [1] T. P. T. Vo, Chain referral sampling on Stochastic Block Models. ESAIM: PS, 24 (2020) 718-738 DOI: https://doi.org/10.1051/ps/2020025.
- [2] V. C. Tran, T. P. T. Vo, Estimation of dense stochastic block models visited by random walks. (in revision by EJS). https://hal.archives-ouvertes.fr/hal-02867642/.

WORK IN PROGESS

[1] J.S. Dhersin, V. C. Tran and T. P. T. Vo, Respondent Driven Sampling on sparse Erdös-Rényi graphs.

Conferences and Seminars _

47th Probibility and Statistics Summer school Saint-Flour

Saint Flour, France

02-14 Jul. 2017

Presentation: "Respondent Driven Sampling (RDS) on Erdös-Rényi graphs."

Franco-Dutch YEP Workshop: Mathematical Statistical Mechanics, Random Graphs and Related Topics.

Eindhoven, Netherlands

ATTENDANCE

28 May.- 01 Jun. 2018

JPS 2018: Workshop for young Probabilists and Statisticians (13th edition) $\,$

Saint Pierre d'Oléron, France

ATTENDANCE AND TALK 13-18 Mai. 2018

Presentation: "Exploration Stochastic Block Models by the chain-referral sampling method."

Seminars of PhD students at the Department of Mathematics, University Lille $\bf 1$

 $Lille,\ France$

Talk 12 Jun. 2019

Presentation: "Respondent-Driven Sampling method and dense graph convergence."

EcoNet Meeting Visio conference

Talk 26 Nov. 2020

Presentation: "Exploration of dense graphon via a random walk."