DAT BA TRAN | Curriculum Vitae

tranbadat@wayne.edu • 1252 FAB • (+1) 313 898 4820
GitHub • Google Scholar • Blog

Summary

Ph. D. Student in Applied Mathematics at Wayne State University, Detroit, MI, USA

Education

WAYNE STATE UNIVERSITY — 8/2020 - now
Ph. D. in Applied Mathematics — Detroit, Michigan, USA
Current GPA: 4.0

HO CHI MINH UNIVERSITY OF EDUCATION — 8/2015 - 6/2019
Teaching Mathematics — Ho Chi Minh City, VN
GPA: 3.7

Publications

1. **INEXACT REDUCED GRADIENT METHODS IN SMOOTH NONCONVEX OPTIMIZATION.**
(with P. D. Khanh, and B. S. Mordukhovich), submitted in 04/2022
2. **GENERALIZED DAMPED NEWTON ALGORITHMS IN NONSMOOTH OPTIMIZATION VIA SECOND-ORDER SUBDIFFERENTIALS.**
(with P. D. Khanh, B. S. Mordukhovich, and V. T. Phat), J. Global Optim. (2022), https://doi.org/10.1007/s10898-022-01248-7
3. **GLOBALLY CONVERGENT CODERIVATIVE-BASED GENERALIZED NEWTON METHODS IN NONSMOOTH OPTIMIZATION.**
(with P. D. Khanh, B. S. Mordukhovich, and V. T. Phat), Math. Program. (to appear). https://arxiv.org/abs/2109.02093

Invited talks

1. **INEXACT REDUCED GRADIENT METHODS IN SMOOTH NONCONVEX OPTIMIZATION.**
   - Applied Mathematics - Analysis seminar at the Mathematics Department, Wayne State University
   - The XIII International Symposium on Generalized Convexity and Monotonicity (Peru)
   - The 2022 Great Lakes SIAM annual meeting, Wayne State University
2. **GENERALIZED DAMPED NEWTON ALGORITHMS IN NONSMOOTH OPTIMIZATION.**
The 23rd Midwest Optimization Meeting (In memory of Professor Asen Dontchev (1948-2021)), Grand Valley State University, Allendale, Michigan, US, October 29 - 30, 2021

Honors & awards

WAYNE STATE UNIVERSITY — 2020 - 2022

1. The M.F. Janowitz Endowed Mathematics Scholarship.
2. The William Martin Borgman Endowed Scholarship for Mathematics.
3. The Robert and Nancy Irvan Endowed Scholarship in Mathematics.

HO CHI MINH UNIVERSITY OF EDUCATION 2015 - 2019

1. 2nd Prize in the Student Scientific Research Conference Department of Mathematics, 2019.
2. 2nd Prize in Algebra at National Mathematics Olympiad for Undergraduates, Vietnam, 2017.
3. AMA Schoolarship for excellent student in Universities of Education in Vietnam, 2015-2019.

TEACHING EXPERIENCE

WAYNE STATE UNIVERSITY

Detroit, MI, USA

1. Fall 2021: MAT 1800 - Elementary Functions
2. Fall 2022: MAT 1071 - College Algebra
3. Winter 2023: MAT 2010 - Calculus I

GIA DINH HIGH SCHOOL

Ho Chi Minh City, VN

1. Mathematics for basic 10th grades students, 2019-2020
2. Mathematics for high school gifted students, 2019-2020

HO CHI MINH UNIVERSITY OF EDUCATION

Ho Chi Minh City, VN

1. Theory of Multiobjective Optimization, 2022

SKILLS

PROGRAMMING LANGUAGE **Experienced:** MATLAB | Python **Familiar:** Javascript | HTML
FRAMEWORKS & TOOLS Excel | Word | Latex
LANGUAGES **Native:** Vietnamese | **Fluent:** English, 6.5 IELTS