

CURRICULUM VITAE

PERSONAL DATA

FULL NAME: Baljinyam Sereeter
DATE OF BIRTH: 13 December 1990
NATIONALITY: Mongolian
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EDUCATION

- Current* PhD candidate at **Delft University of Technology**, the Netherlands
Period: Aug 2015 - Aug 2019
Thesis: Data-driven monitoring, prediction and real-time control for the smart grid and its users
Develop advanced mathematical models of the Smart Grid. Implement real-time, fast and robust solution method on the modern accelerators like GPU and FPGA.
- 2012-2014 Erasmus Mundus Computer Simulation for Science and Engineering (COSSE)
double degree master program
MSc, **Technical University of Berlin**, Germany, 2013-2014
Major: Scientific Computing
Courses: Optimal control of partial differential equation, Differential algebraic equation, Master thesis
MSc, **Delft University of Technology**, the Netherlands, 2012-2013
Major: Applied Mathematics
Courses: Applied functional analysis, Stochastic Processes, Applied finite elements, Computational finance, Advanced modeling, Numerical methods 2

Thesis: Optimal distributed point control of linear elliptic equations
Considered optimal function and point control problems governed by linear elliptic partial differential equations together with bilateral control constraints. Examined an existence of a weak solution and derived optimality conditions for both problems. Introduced discretization using FEM and FVM and applied numerical methods including primal-dual active set strategy and projected gradient method to obtain desired solution. The multigrid preconditioned conjugate gradient method is employed when problem size is large. Sparse point and function control problems were studied.
Advisor: Prof. Fredi TRÖLTZSCH
Grade: 1.3/1
- 2007-2011 BSc, **National University of Mongolia**, Mongolia
Major: Applied Mathematics
Courses: Probability theory, Mathematical analysis, Optimization, Numerical methods, Programming
Thesis: The model of portfolio choice
Markowitz model was applied to minimize risk for a given level of expected return, by carefully choosing the proportions of various assets. The efficient frontier for assets of twenty companies in Mongolian stock market was obtained.
Advisor: Prof. Barsbold BAZARRAGCHAA
Grade: 92/100
- 1997-2007 77th High School, Class of mathematics, Ulaanbaatar, Mongolia

WORK EXPERIENCE

CURRENT	SIAM Student Chapter Delft Webmaster of SIAM Student Chapter at TU Delft (Maintain the website of SIAM Student Chapter that is hosted and generated through GitHub.)
NOV 2011-MAY 2012	Infosoft Co., Ltd, Ulaanbaatar, Mongolia Software Engineer at the Department of Software Development (Used program language C# on Visual Studio, created insurance scalable software that can be accessed on a desktop computer, smart phones and web browser by users as an insurer and insurance companies)
JUN 2009-SEP 2009	"Work and travel in USA" summer program, Chicago, USA Part time job

INTERNSHIP

SEP 2010-DEC 2010	"Selba Service" LLC, Ulaanbaatar, Mongolia Developed a desktop software which calculates a photo frame price based on a given information by the customer. The database created on Access can be edited by the employee of the customer company.
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SCHOLARSHIPS AND CERTIFICATES

Dec 2015	Process Mining: Data science in Action
Jan 2015	ForEx trading
2012-2014	Full scholarship of Erasmus Mundus Program
June 2011	"Best student of the year" under the auspice of the President
Feb 2006	Silver medal of Mathematical Olympiad in Bayangol district
May 1999	Golden medal of Mathematical Olympiad at school

LANGUAGES

MONGOLIAN:	Mother Tongue
ENGLISH:	Fluent
GERMAN:	Basic Knowledge
DUTCH:	Beginner

COMPUTER SKILLS

Advanced Knowledge:	\LaTeX , Visual studio, MS Office
Basic Knowledge:	PHP, my SQL, HTML, Linux
Programming:	MATLAB, C++, C#

INTERESTS AND ACTIVITIES

Numerical Linear Algebra, Optimal control, Mathematical modelling, Computational finance, Programming on GPU, Data science, Power flow problem
Football, Basketball, Tennis, Traveling, Fitness