Shengdi
Chen

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Skills and Interests

- Competence in Computational Science & Applied Mathematics; Training in Natural Sciences

- Fluent in English, German and Mandarin; proficient in French and Cantonese; conversational in Russian, Spanish, Italian and Arabic (MSA)

- Wide range of hobbies: from 20 years' experience in violin-playing to BlackBerry and ThinkPad Collection

Education

Secondary School

Shanghai Foreign Language School	Sep. 09 ⇀ Jul. 13

High School

Shanghai Foreign Language School	Sep. 13 ⇀ Sep. 14
Privates Internatsgymnasium Schloss Torgelow	Oct. 14 ⇀ Jun. 17

B.Sc.[1] & M.Sc.[2][3]

Computational Science and Engineering[4]	Sep. 17 ⇀ Jul. 24
(Rechnergestützte Wissenschaften =: RW)	(projected for current studies)
D-MATH, Swiss Federal Institute of Technology in Zurich (ETH Zürich)	

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[1] B.Sc. Thesis (6.0/6.0): Mastering Tetris with Reinforcement-Learning; supervised by Prof. Dr. J. Buhmann, D-INFK.
[2] (M.Sc.) Semester Thesis: An Empirical Study of Primal Wasserstein Imitation-Learning in Goal-Conditioned RL; supervised by Prof. Dr. J. Buhmann, D-INFK.
[3] M.Sc. Thesis (evaluation pending): Masked PDE-Learning; supervised by Prof. Dr. S. Mishra, D-MATH.
[4] Specialization: Control Theory (major) & Robotics (minor).

Employment

Internship

Software Developer   `Jul. 15`
META Motoren- und Energie-Technik GmbH

Market Researcher   `Jul. 17 ⇀ Aug. 17`
Vanke Co., Ltd.

Part-time Position

Control Theoretician & Software Developer   `Sep. 17 ⇀ ★`
Department of Speech Pathology & Audiology, East China   (ongoing engagement)
Normal University

Patents

Granted

»Methods of Establishing Prediction-Models of   `Sep. 21`
Rehabilitation Efficacy of Child Autism«
ZL 2021 1 0111675.3

Pending

»A management system for correction and treatment of   `Jan. 22`
speech sound disorders in Mandarin Chinese for
evaluation subjects of autism spectrum disorder«
202210056668.2 | 2026CN-PHD212448

»An intelligent recommendation and delivery method of   `Jan. 22`
speech-training solutions of Mandarin Chinese«
202210056677.1 | 2026CN-PHD212449

»A generating system for correction and treatment   `Jan. 22`
solutions of speech sound disorders pertaining to the "b"
consonantal sound«
202210055402.6 | 2026CN-PHD212450

»A generating system for correction and treatment   `Jan. 22`
solutions of speech sound disorders pertaining to the "m"
consonantal sound«
202210056675.2 | 2026CN-PHD212451

»Methodologies and Systems for generating characteristic   `Jan. 22`
encodings of speech sound disorders of consonantal
sounds«
202210055395.X | 2026CN-PHD212452

»Handling methodologies for data lookup and database systems for correction and treatment of speech sound disorders of consonantal sounds« 202210056665.9 | 2026CN-PHD212453	Jan. 22
»An analysis system for speech sound disorders of consonantal sounds based on speech recognition« 202210056678.6 | 2026CN-PHD212454	Jan. 22
»A generating system for correction and treatment solutions of speech sound disorders pertaining to the "d" consonantal sound« 202210055400.7 | 2026CN-PHD212455	Jan. 22
»Methodologies and Systems for digitalization of development history of autism children, prediction of occupational prospects and effect evaluation of treatment classes« 202211094680.9 | PHD-220542	Sep. 22

Academic Achievements

Scholarship

Admission to German Academic Scholarship Foundation[5] (Studienstiftung des deutschen Volkes)	Dec. 17

Publication

»Evaluation and Training of Social Ability of Children with Autism Based on Robot Technology« China Educational Technology & Equipment, 1671–489X	Jun. 21

Mathematics

Perfect Score AMC 8 (American Mathematics Competition 8)	Oct. 10
Finalist 2013 HiMCM (COMAP's High School Mathematical Contest in Modeling)	Jan. 14
Honorable Mention 2014 MCM (COMAP's Mathematical Contest in Modeling)	Apr. 14
State Gold Medalist & Champion 54th German Mathematics Olympics (Mathematik-Olympiade)	Feb. 15

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[5] No monetary funding due to non-German nationality and non-German University for B.Sc. Studies. [Contact: Dr. R. Hain | hain@studienstiftung.de]

National Silver Medalist   Jun. 15
54th German Mathematics Olympics (Mathematik-Olympiade)

6th Global Team Ranking   Nov. 15
26th Baltic Way Mathematical Team Contest

State Gold Medalist & Champion   Feb. 16
55th German Mathematics Olympics (Mathematik-Olympiade)

2nd Prize   May. 16
First Round: Federal Contest of Mathematics of Germany
(Bundeswettbewerb Mathematik)

1st Prize   May. 16
Math Kangaroo Competition (Känguru der Mathematik)

State 3rd Prize   Feb. 17
56th German Mathematics Olympics (Mathematik-Olympiade)

Languages

Participation as Ambassador   Jan. 16
48th THIMUN

Grade A   Jun. 16
CPE (Certificate of Proficiency in English), CEFR C2

Goethe-Zertifikat   Sep. 16
Grosses Deutsches Sprachdiplom, CEFR C2

National 2nd Prize   Sep. 16
2016 Federal Contest of Foreign Languages of Germany
(Bundeswettbewerb Fremdsprachen)

National 1st Prize & Champion[6]   Sep. 17
2017 Federal Contest of Foreign Languages of Germany
(Bundeswettbewerb Fremdsprachen)

Management

Business@school   Aug. 15 → Jun. 16

TOPSIM: General Management   Jun. 16

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[6] Automatic admission to German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes).