

# Andrey Trebler

## Curriculum Vitæ

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### Personal Information

Date of birth 05/04/1986

Citizenship Norwegian

Marital status Married

### Key Qualifications

Software development; mathematical modeling and numerical calculations; simulation software and real-time simulators; computer graphics

### Work Experience

01/2019... **Full Stack Developer**, *eDrilling AS*, Stavanger, Norway.

Architecture and development of microservices, RESTful APIs, web applications for oil and gas industry with cloud deployment

- Backend: C++17/Qt, Go, TypeScript/Node.js (ES2020), Python
- Frontend: TypeScript/Vue.js, TypeScript/React
- DevOps: Docker, Kubernetes, Azure, AWS
- Technologies: OpenAPI, Redis, RabbitMQ/AMQP, WebSockets, Traefik, Keycloak

10/2016–01/2019 **Full Stack Developer**, *timeanddate.com*, Stavanger, Norway.

Development of numerical algorithms, APIs, and software for astronomical simulations

- Backend development (in C99) of internal and external APIs providing astronomical data
- Frontend development (in JavaScript using D3 and three.js frameworks) of browser-based applications for astronomical visualization. ECMAScript 5, CSS/SASS and HTML5

03/2016–10/2016 **Software Engineer**, *Steinsvik*, Førresfjorden, R&D Department.

Development of software for fish farming industry

- Development (frontend and backend) of cross-platform software for camera control and monitoring at fish farms in Qt/QML and C++11
- Support of existing software implemented in NI LabVIEW

12/2013–02/2016 **Simulator Systems Analyst**, *MHWirth*, Stavanger, Simulators Department.

Development of real-time simulators for oil and gas industry

- Development of mathematical models for equipment simulation
- Control system software implementation
- HIL testing of control system software

06/2010–06/2013 **PhD Research Fellow (doktorgradsstipendiat)**, *University of Oslo—UiO*, Oslo, Department of Geosciences, Section for Meteorology and Oceanography.

Research on project *Sources of Greenhouse Gases in East Asia (SOGG-EA)*

10/2007–01/2008 **Software Test Engineer**, *ABBY*, Moscow, Mobile software testing group.

Gray-box testing of applications for Symbian and Windows Mobile mobile operating systems

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## Education

- 06/2010–06/2013 **PhD Program in Atmospheric sciences**, *University of Oslo—UiO*, Faculty of Mathematics and Natural Sciences, Department of Geosciences.  
Section for Meteorology and Oceanography
- 10/2008–05/2010 **PhD Program in Mathematical Modelling, Numerical Methods and Programming**, *Lomonosov Moscow State University*, Faculty of Computational Mathematics and Cybernetics.  
Department of Nonlinear Dynamical Systems and Control Processes
- 09/2003–06/2008 **MSc in Applied Mathematics and Computer Science with speciality Mathematician, System Programmer**, *Lomonosov Moscow State University*, Faculty of Computational Mathematics and Cybernetics, GPA: 4.47 (out of 5.0).  
Department of Nonlinear Dynamical Systems and Control Processes

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## Programming skills

GNU/Linux, MacOS, Windows

*Programming* TypeScript/JavaScript (ES2020), Node.js/Deno, Go, C99, C++17, Bash, HTML/CSS/SASS

*Frameworks* Qt, Vue.js, Angular, React, three.js, D3.js, express.js, Bulma/Bootstrap

*DevOps* Docker, Kubernetes, AWS, Azure, DigitalOcean, GitHub Actions, Jenkins

*Bug tracking systems* Jira, TFS, Redmine, GitHub

*Technologies* Redis, RabbitMQ, AMQP, OpenAPI/Swagger, NGINX/Traefik/Haproxy, WebSockets, OAuth 2.0, Keycloak, WebGL, JSON-RPC

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## Languages

Russian Native

English Advanced

*IELTS 7.5 (L: 7.5; R: 8.5; W: 7.5; S: 7.0) ~ C2*

Norwegian Intermediate

*Norskprøve 2 (A2)*

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## Hobbies

IT, science, reading, chess, astronomy, table tennis, squash, volleyball, badminton, cars

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## Select Publications

- [1] **A. Trebler**, R. L. Thompson, and S. Eckhardt, Estimating Primary and Secondary Sources of Persistent Organic Pollutants Using Inverse Methods, *Atmospheric Environment*, 2013–2015.
- [2] **A. Trebler**, A. Stohl, and P. Seibert, “Identification of Greenhouse Gas Emission Sources Using Analytical Inverse Method,” in *Algorithmic Analysis of Unstable Problems: Abstracts of the International Conference Dedicated to the Memory of V. K. Ivanov*, Institute of Mathematics and Mechanics, Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia, 2011, <http://aanz.imm.uran.ru/aanz/AANZ-2011-final.pdf>.
- [3] **Andrey Trebler**, On Cascades of Bifurcations Leading to Chaos in Several Nonlinear Dissipative Systems of ODEs, *Communications in Nonlinear Science and Numerical Simulation*, vol. 15, no. 10, pp. 2974–2986, 2010, doi: 10.1016/j.cnsns.2009.11.019.
- [4] **Andrey Trebler**, A Transition to Chaos in Rucklidge Model of Double Convection, in *CIMCA '08: Proceedings of the 2008 International Conference on Computational Intelligence for Modelling Control & Automation*, 2008, IEEE Computer Society, pp. 952–957, doi: 10.1109/CIMCA.2008.46.