

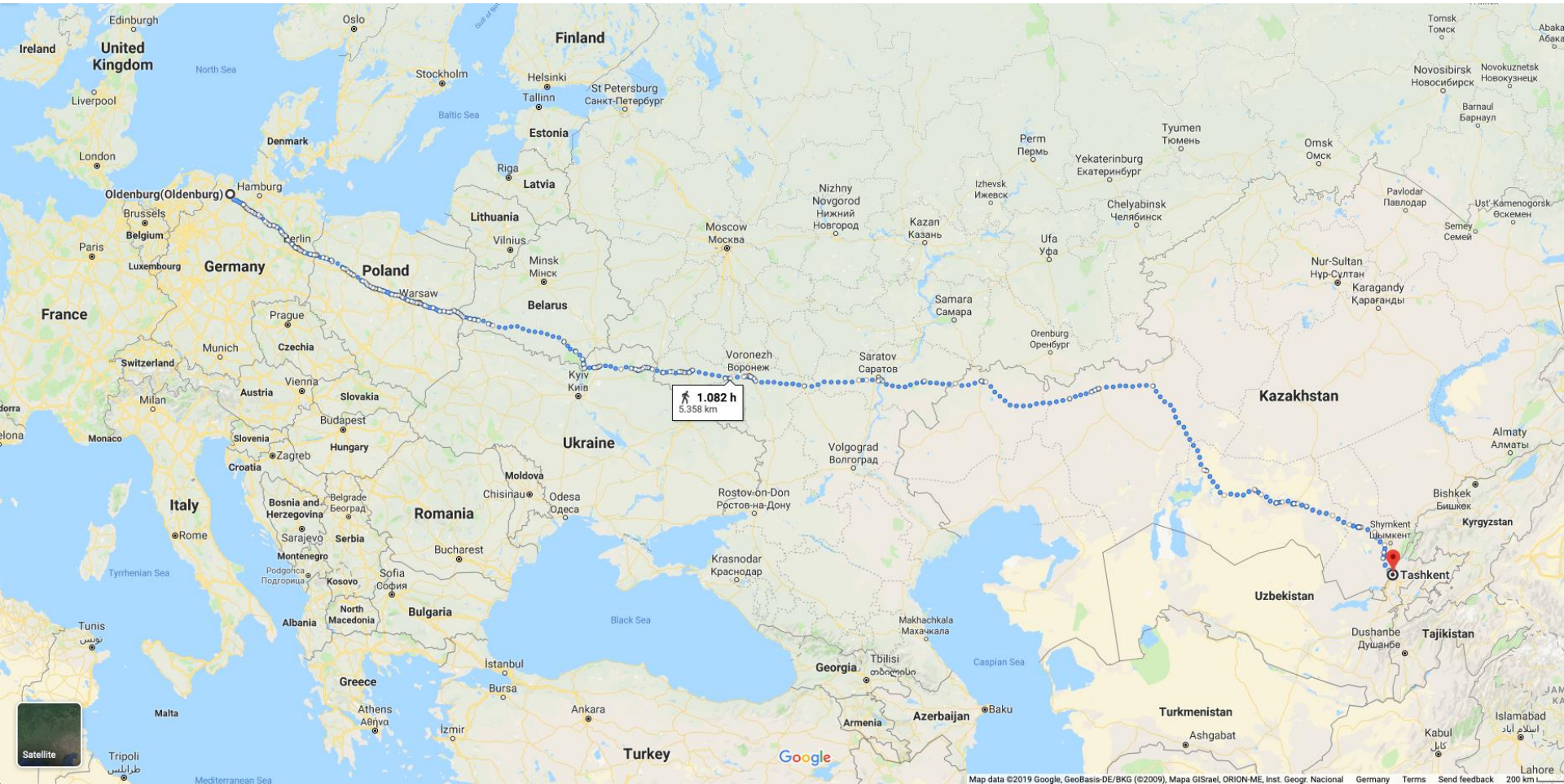
Computer Science in Oldenburg (Oldb.) Germany



Oldenburg at Night



Oldenburg - Tashkent



Oldenburg (Oldb.)

Where is it?

- Northwest of Germany
- Close to the North Sea and to the Netherlands

Distances

- Hamburg: 150 km
- Berlin: 450 km
- Munich: 750 km
- Amsterdam: 300 km

- Tashkent: 4650 km



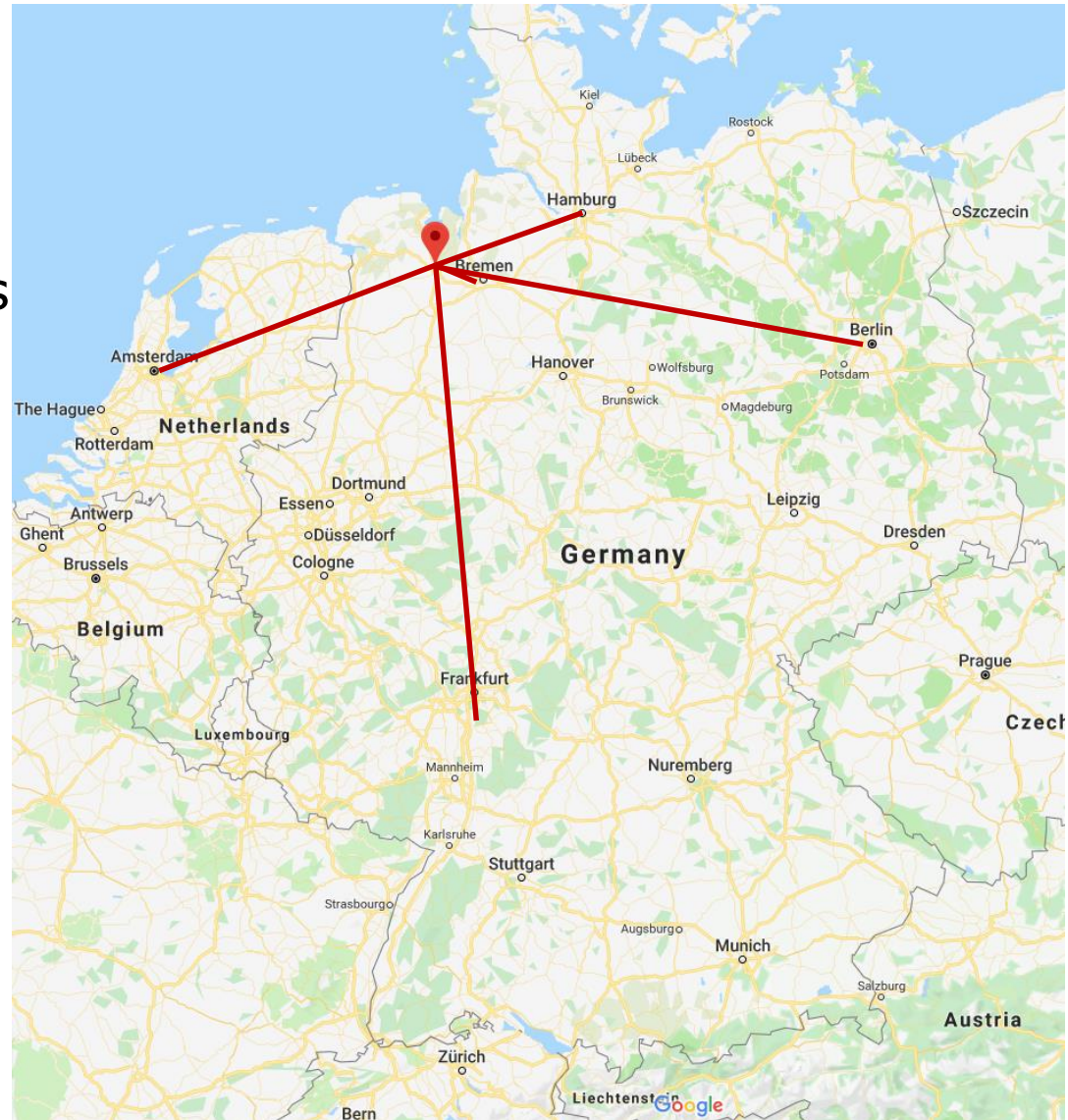
How to reach Oldenburg

Easy to reach by air...

- Nearest Airports
 - Bremen
- Intercontinental Airports
 - Hamburg
 - Amsterdam
 - Berlin
 - Frankfurt

... by land

- ICE train station near the city center
- immediate motorway connection



Green Oldenburg

- 900 years of History
- Historical Buildings
- Cozy, green and safe
- Plenty of Entertainment and Culture
- Bike City



Oldenburg - City of Science



 ÜBERMORGENSTADT OLDENBURG
Stadt der Wissenschaft
2009
Ausgezeichnet durch den Stifterverband



Oldenburg Downtown



Oldenburg - Waters



Oldenburg - Gardens



Oldenburg Bikes



Carl von Ossietzky University of Oldenburg



Carl von Ossietzky

* October 3, 1889
+ Mai 4, 1938

Journalist, Author,
Pacifist

received
Peace Nobel Price
in 1935



[http://www.ndr.de/land_leute/norddeutsche_gesichter/ossietzky100_v-contentgross.jpg]

History: University of Oldenburg

March 7, 1793 Founding a teachers' seminar
by Duke Peter Friedrich Ludwig

Oct. 1, 1945 Establishing the
Pedagogical Academy in Oldenburg

March 1, 1971 Installing of a founding committee
consisting of one third
Professors, assistants
and students, each



Dec 5, 1973 Founding the University of Oldenburg with an
integrated teacher training college

Oct. 22, 1985 Establishing **Computer
Science** with 55 students

Oct. 3, 1991 Renaming the university
after *Carl von Ossietzky*

Oct. 18, 2004 starting Bachelor's and
Master's degree programmes



Statistics: University

Students: 15947

- Female: 8999
- Male: 6948

Professors: 222

- Female: 66
- Male: 156

Researcher: 1305

- Female: 628
- Male: 677

Completed PhDs (2018): 162

- Female: 62
- Male: 100



Faculties

- I School of Education
- II School of Computing Science, Business Administration, Economics and Law
- III School of Linguistics and Cultural Studies
- IV School of Humanities and Social Sciences
- V School of Mathematics and Science
- VI European Medical School



Degree Courses

Bachelor's Programme

- › Biology
- › Business Administration and Law
- › Business Administration for Medium-Sized Enterprises
- › Business Administration for Top Athletes
- › Business Informatics
- › Chemistry
- › Comparative and European Law
- › Computing Science
- › Economics and Business Administration
- › Education
- › Engineering Physics
- › Engineering Physics - Dual Study Program
- › Environmental Science
- › Mathematics
- › Pedagogic acting in migration society
- › Physics
- › Physics, Engineering and Medicine
- › Social Studies
- › Sustainability Economics

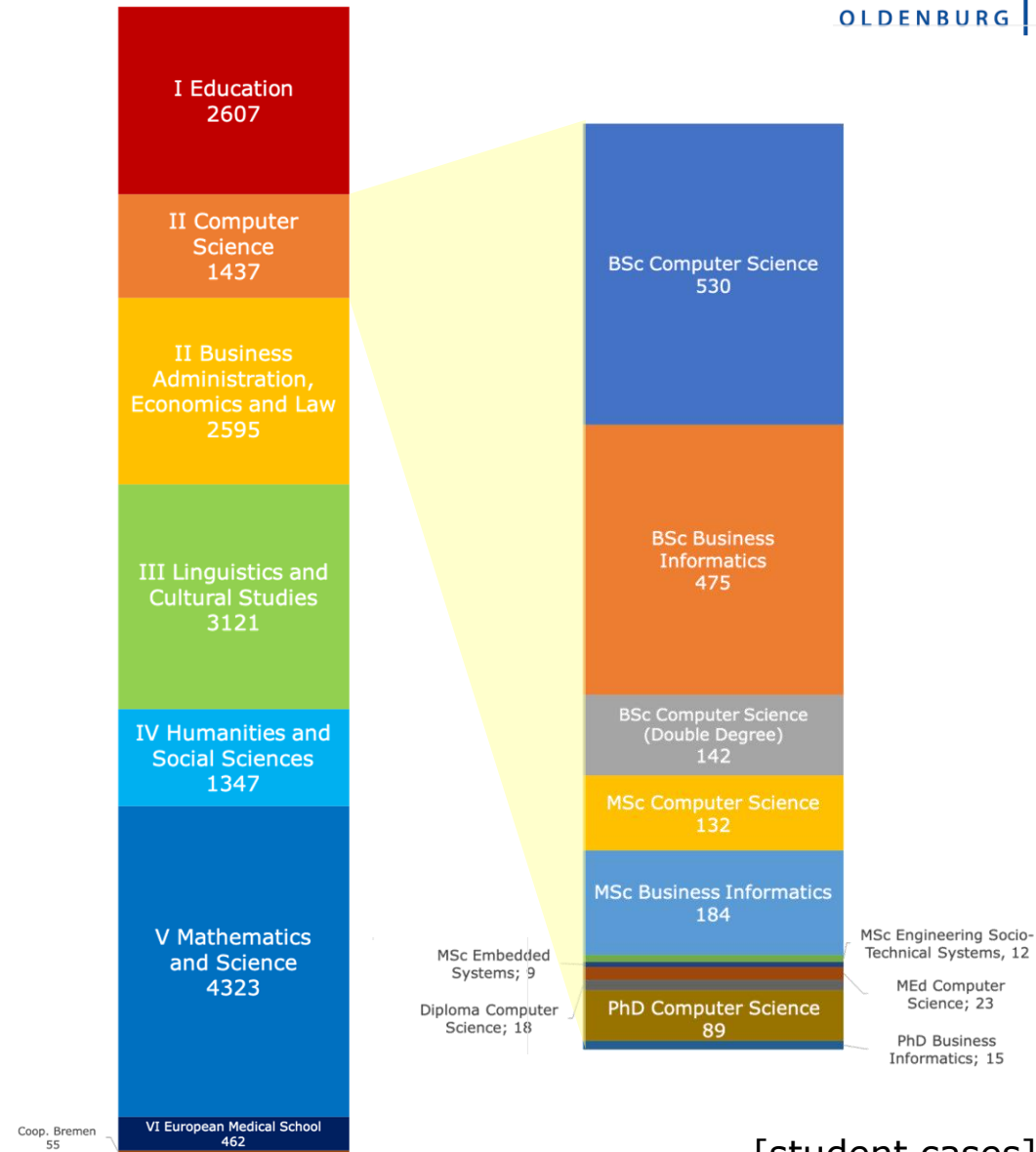
<https://uol.de/en/students/degree-programmes>

Master's Programme

- › Art and Media Studies
- › Biology
- › Business Administration, Economics and Law
- › Business Informatics
- › Chemistry
- › Computing Science
- › Cultural Analysis
- › Dutch Linguistics and Literary Studies
- › Ecumenism and Religions
- › Education and Research Management
- › Educational Science
- › Engineering Physics
- › Engineering of Socio-Technical Systems
- › English Studies
- › Environmental Modelling
- › European History
- › European Master in Migration and Intercultural Relations
- › European Master in Renewable Energy (EUREC)
- › German Studies
- › German as a Foreign Language / German as a Second Language
- › Hearing Technology and Audiology
- › Innovation Management and Entrepreneurship
- › Integrated Media - Audiovisual Media in Practice, Theory and Instrumentality
- › Landscape Ecology
- › Language Dynamics: Acquisition, Variation, Change
- › Law and Information Systems
- › Management Consulting
- › Management of Technology Enhanced Learning
- › Marine Environmental Sciences
- › Marine Sensors
- › Mathematics
- › Microbiology
- › Museum and Exhibition
- › Music Studies
- › Neurocognitive Psychology
- › Neuroscience
- › Philosophy
- › Physics
- › Physics, Engineering and Medicine
- › Postgraduate Programme Renewable Energy
- › Rehabilitation Counseling Education
- › Renewable Energy Online
- › Risk Management for the Financial Industry
- › Slavic Studies
- › Social Studies
- › Sport and Lifestyle
- › Sustainability Economics and Management
- › Transnational Law
- › Water and Coastal Management

Faculties

- I School of Education
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- VI European Medical School



[student cases]

Statistics: Computing Science

Students: 1611

- Bachelor: 1147
- Master: 360
- PhD: 104

Professors: 15

- hiring: 4

Researcher: 120

Grant holders: 50


Researcher @ OFFIS: ~250




[student cases]

Professors and Groups

Theoretical CS




Annegret Habel
Formal Languages



E.R. Olderog
Correct Systems


Practical CS



Susanne Boll
Multimedia Systems



Oliver Kramer
Computational Intelligence



Oliver Theel
Distributed Systems



Andreas Winter
Software Engineering


Applied CS




Ira Diethelm
Didactics in Computer Science



Axel Hahn
Business Informatics



Frank Köster
Transportation Systems




S. Lehnhoff
Energy Informatics



J. Marx Gomez
Business Informatics (VLBA)

Technical CS



Werner Damm
Safety Critical Embedded Systems



Sergej Fatikow
Micro-Robotics & Control Engineering



Martin Fränzle
Hybrid Systems



Wolfgang Nebel
Embedded HW/SWSystems

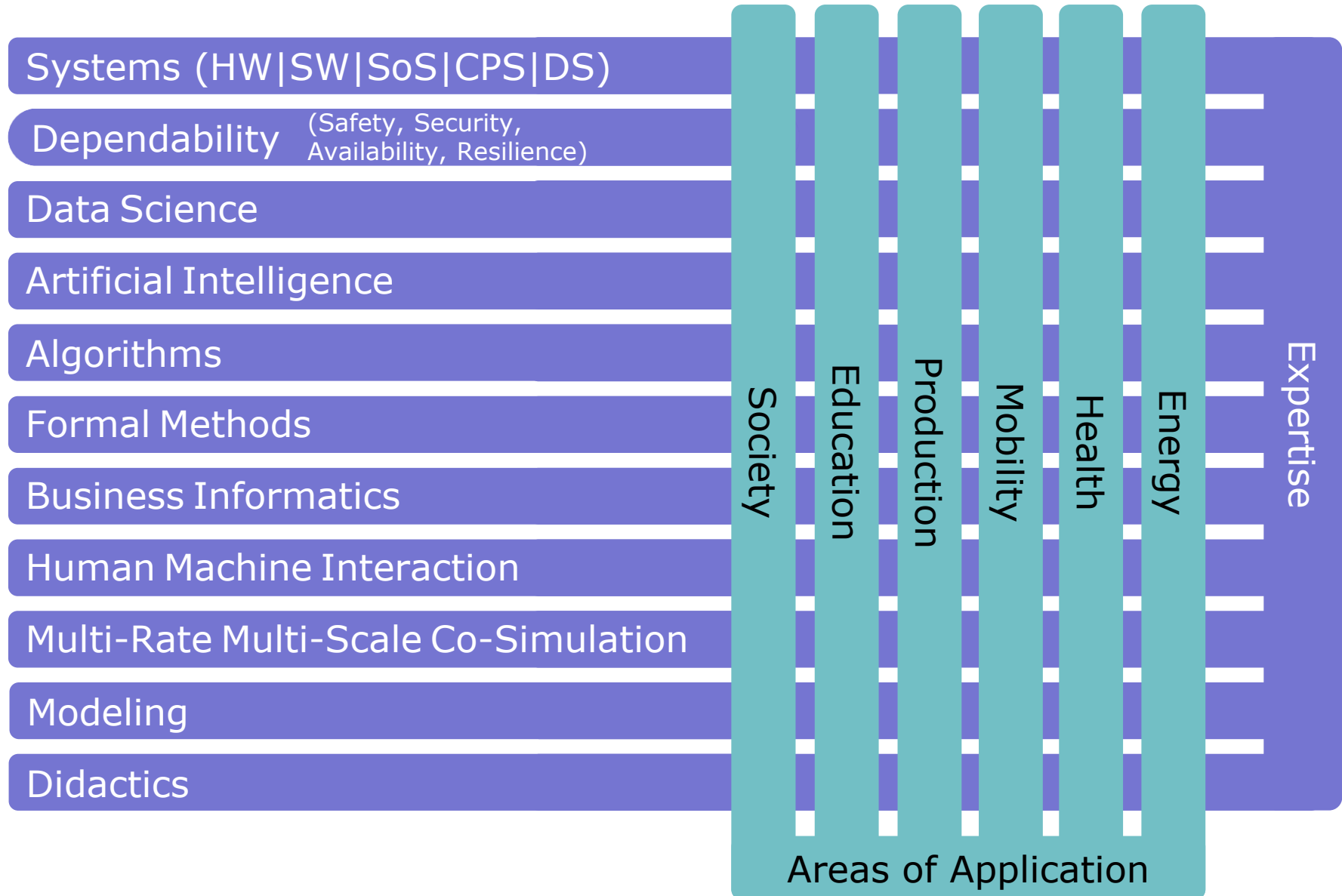
in occupation

- Digitalized Energy Systems
- Applied Artificial Intelligence
- Data Science
- Formal Methods

successfully applied for

- additional five professorships in the field of digitalization

Fields of Expertise in Research



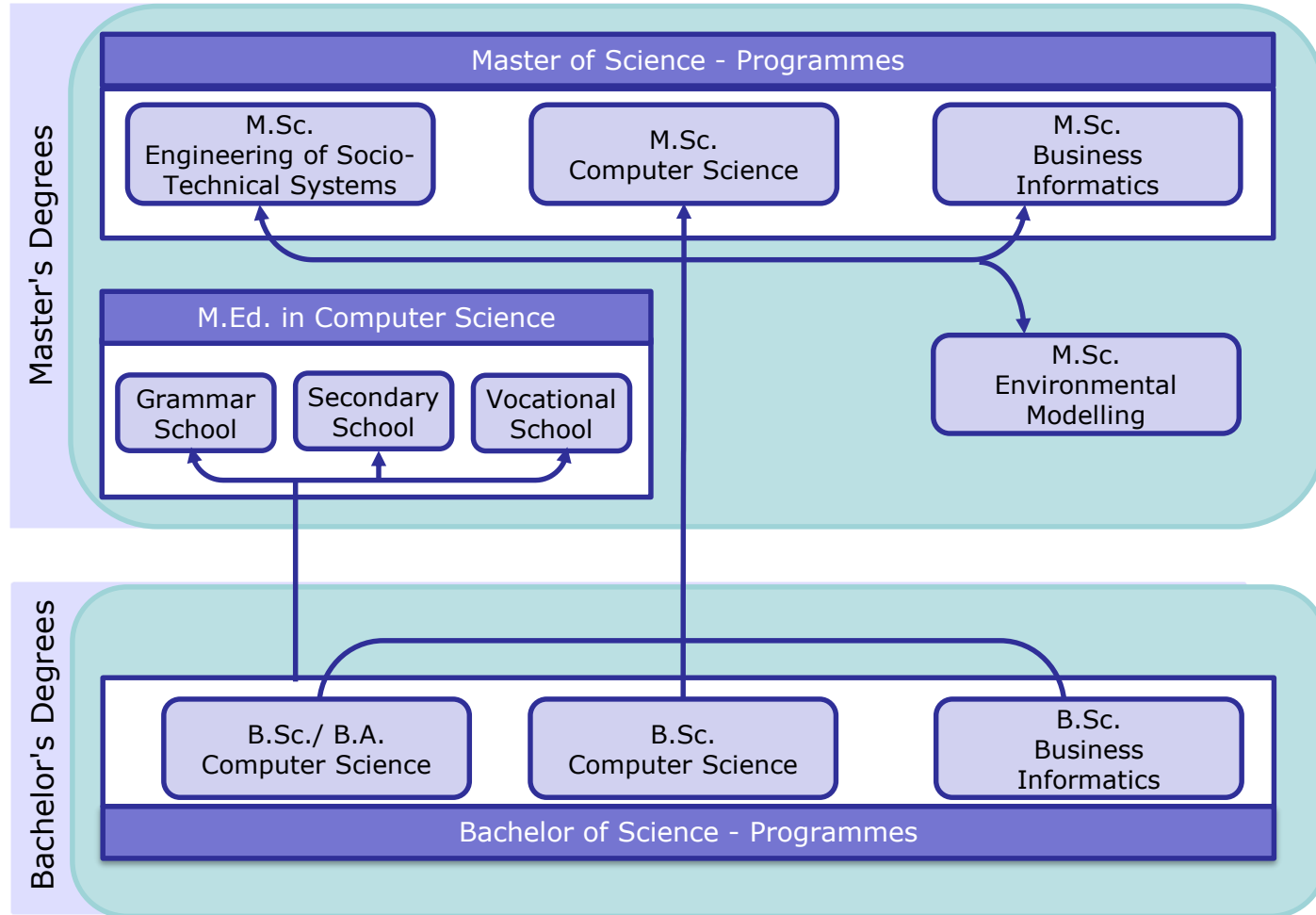
Teaching Programs

Bachelor

Master

PhD

- research assistants (CvO, OFFIS)
- PhD Grants
 - DAAD
- PhD Programs
 - DFG SCARE
 - System Integration of Renewable Energy
 - Safe Automation of Maritime Systems



- PhD of Dilshodbek Kuryazov (2011–2019)
- Memorandum of Understanding (2014, extended 2017)
- Visits of Uzbek Researchers in Germany (2014, 2017–2019)
- SmartModeling (2018/19–2020/21)
- SuMoCoS (2019)
- Erasmus+ Credit Mobility (2019–2022)

Delegation from Oldenburg

Topics of Interest

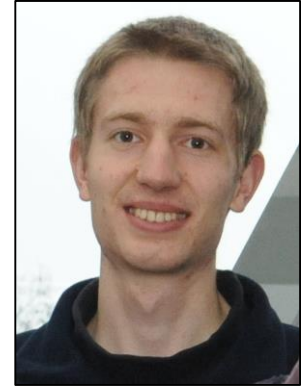
- Software-Engineering
- Modeling and Meta Modeling
 - collaborative Modeling
 - Model Versioning
 - Model Consistency
- Graph-Technology
- Software Architecture
 - for Sensor-based Smart Systems
 - for IoT Systems
 - View(point)s and Integration
- Process-Models
- Software Evolution
 - Sustainable Software
- Tool Interoperability



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M.Sc. Johannes
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Interests in SuMoCoS

- Architecture of Sensor- and Actuator-Networks for SmartCities
- IoT Languages for SmartCities
- Research, Exchange and Collaborations for SmartCities

Topics of Interest

- Dependable Distributed Computing
- Fault Tolerance in Distributed Systems
 - Replication of Data & Services
 - Self-Stabilizing Distributed Algorithms
 - Region-Adherent Distributed Algorithms
- Dynamics in Distributed Systems
- Distributed Base Algorithms
 - Scalability
 - Self-Organization
 - Graceful Degradation
 - Energy-Efficiency
 - Consistency
- (Wireless) Sensor Networks
- Sensors for Environmental
- Phenomena



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Marvin Banse
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Interests in SuMoCoS

- Sensor & Actuator Networks for SmartCities
 - Models
 - Properties
 - Sensor & Actuator Devices
- Exchange & Collaborations

Very Large Business Applications

@University of Oldenburg

Topics of Interest

- Data Science
 - Artificial Intelligence
 - Big Data Integration
 - Blockchain
 - Business Intelligence
 - Data Ownership / Transparency
- Sustainability
 - EMIS
 - Sustainable Mobility
 - Sustainable Reporting
 - Recycling networks
- Knowledge Transfer & Capacity Building



Prof. Dr.-Ing.
Jorge Marx Gómez



M.Sc. Christian
Janßen



M.Sc. Alexander
Sandau



Dr.-Ing. Andreas
Solsbach

Interests in SuMoCoS

- Architecture of Smart City Platforms
- Data Management in Smart Cities
- Exchange and Collaborations

Topics of Interest

- Power System Intelligence
- Artificial Intelligence (via CCAI)
- Cyber-Resilient Architectures and Cyber-Security
- Standardized Systems Engineering and Assessment
- Energy-efficient Smart Cities
- Automation, Communication and Control
- Simulation and Agents in Multiple Domains
- Data Integration and Processing



Dr.-Ing. Eric MSP Veith
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+ a team of more than 60 people

Interests in SuMoCoS

- AI-based Resilient Control
- Sustainable Energy Management in Smart Cities
- Integration of Renewable Energy

Interdisciplinary Centre for Law of the Information Society (ZRI)

@University of Oldenburg

Topics of Interest

- Privacy by Design
- Smart Cars
- IoT
- Tracking Technologies
- Video Surveillance
- Fundamental Rights
- Electronic Contracts
- Privacy Enhancing Technologies
- Cyber Security



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Interests in SuMoCoS

- Legal Regulation of Smart Cities
- Transparency
- Privacy Policies
- Data Subject Rights

Topics of Interest

- Retrofitting Existing Machine Parks
- Development of IIoT Products
- Modeling and Meta Modeling
 - Model-driven Development of Industrial IoT Systems
 - Model Integration
- Tool Development
 - Monitoring and Tracing
 - IIoT IDE
- Machine Learning
- Research in IIoT
- Sustainable IIoT Software
- Enterprise Applications
 - Mobile App Development
 - Web-based Applications



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Interests in SuMoCoS

- Modeling of Systems and Languages for SmartCities
- Retrofitting of Existing Things in SmartCities
- Exchange and Collaborations