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Address	Winzerhalde 105 CH-8049 Zürich	
Nationality, Permit	American, permanent B	
Date of Birth	01.04.1983	
Languages	English (Native), German (sprechen, schreiben C1 Goethe) (lesen B2 Telc)	

<b>Profile</b>	<p>A mathematically trained data scientist addicted to problem solving, secure in programming, looking for a new project. With a broad knowledge of industry standard and state of the art mathematical models, I am ready to provide the solutions to get the most out of your data.</p> <p>During my 6 years of data science experience within academia, I both self started innovative projects and worked together with colleagues to create target oriented data pipelines. I am driven by difficult problems, and my appetite for multitasking contributes to my flexibility working within a team.</p>
<b>Computer Skills</b>	<p>High Proficiency: Python (NumPy, SciPy, scikit-learn, Pandas, NLTK, NetworkX, BeautifulSoup), <math>\LaTeX</math>, git, Slurm, Linux</p> <p>Functional Proficiency: SQL, R, Matlab</p>
<b>Website Certifications</b>	<p>jeanverrette.com</p> <p>Google Analytics (GAIQ), University of Michigan: Applied Data Science with Python</p>
<b>Education</b>	
2011 – 2016 Ph.D. Mathematics	University of Hawai'i at Mānoa equivariant algebraic topology
2008 – 2009 M.S. Mathematics	Montana State University at Bozeman time series analysis and dynamical systems
2001 – 2005 B.S. Mathematics	State University of New York at Buffalo magna cum laude and Honors Renaissance Scholar
<b>Work Experience</b>	
2018 – present	<p>Freelancing</p> <ul style="list-style-type: none"> <li>• Programming in Python, R, and javascript.</li> <li>• NLP, machine learning, and utilization of Google API's.</li> </ul>

2016 – 2017 Lausanne, Vaud	<p>École Polytechnique Fédérale de Lausanne (EPFL) Blue Brain Project External Collaborator</p> <ul style="list-style-type: none"><li>• Analyzed structural and functional neural connections using novel topological data analysis techniques.</li><li>• Modeled neurological data using machine learning techniques through large scale analyses deployed at the Swiss National Supercomputing Center.</li><li>• Algorithm development with Python and git. Batch deployment with slurm.</li></ul>
2011 – 2014 Honolulu, Hawaii	<p>Instructor and Teaching Assistant at University of Hawai'i at Mānoa</p> <ul style="list-style-type: none"><li>• Programmed in Mathematica, Matlab, and Sage.</li><li>• Taught honors Multivariable Calculus, Calculus and differential equations for scientists.</li><li>• Taught honors project based courses for scientists, programming and basic data analysis projects.</li></ul>
2009 – 2011 Honolulu, Hawaii	<p>National Science Foundation (NSF) K-12 Teaching Fellow</p> <ul style="list-style-type: none"><li>• Lead programming for animated education projects.</li><li>• Organized outreach activities within the local community and participated in cultural awareness seminars.</li><li>• Incorporated math and science research into high school curriculum.</li><li>• Presented work and participated at international conferences including SC (High Performance Computing) and NSF GK-12.</li></ul>
2007 – 2009 Bozeman, Montana	<p>Teaching Assistant at Montana State University of Bozeman</p> <ul style="list-style-type: none"><li>• Programmed in Maple and <math>\text{\LaTeX}</math>.</li><li>• Pre calculus, Contemporary Mathematics: Website development and lectured classes.</li><li>• Statistical based Biology lab: Responsible for explaining strategic data analysis and inquiry based experimental design.</li><li>• Biomimetric Intelligent Systems: Mentored students pursuing robotic coding projects.</li></ul>

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2005 – 2008 Bozeman, Montana	<p>Center for Computational Biology, Montana State University</p> <ul style="list-style-type: none"><li>• Programmed in R and Matlab on Linux.</li><li>• Developed statistical and information theory models for biological data.</li><li>• Conducted electrophysiology experiments and ETL of sensor data.</li><li>• Presented at international conferences including CNS (Organization for Computational Neurosciences).</li><li>• Applied Markov models and systems of Partial and Ordinary differential equation models.</li></ul>
2002 – 2005 Buffalo, New York	<p>Resident Advisor at University at Buffalo</p> <ul style="list-style-type: none"><li>• Organized social, diversity, and cultural events.</li><li>• Mediation, Conflict Resolution, and trained other coworkers in communication.</li><li>• Tutored colleagues in Mathematics, Statistics, Physics, Biology, and German.</li></ul>
2003 – 2005 Buffalo, New York	<p>Laboratory assistant at Neurodiagnostic Laboratory at Buffalo General Hospital</p> <ul style="list-style-type: none"><li>• Analyzed neural sensor data in Excel.</li><li>• Trained in neuropsychological techniques with Multiple Sclerosis patients.</li></ul>