Computational Scientist (f/m/d) for Physics-Driven Machine Learning in Climate-Adapted Planning

VRVis, Austria's largest research institute for Visual Computing is looking for a skilled and creative mind!

We offer an open-ended position for a computational scientist (f/m/d) developing neural networks for microclimate simulations in the context of practical climate-sensitive planning. The results will be integrated into the software scenarify, VRVis' simulation software solution for decision support in climate change adaptation and disaster management.

You will join our Integrated Simulations R&D-team of highly motivated researchers and software engineers who enjoy finding innovative solutions in a constructive and friendly working atmosphere.

Your job

- Research physics-driven machine learning (PINN's etc.) for microclimate simulation (heat, wind, water) for real-world use cases
- Investigate deep learning-based solutions for forward- and backward problems in a decision support system
- Publish your research results at renowned scientific venues

Your background

- A master's degree in computational science, mathematics, physics, environmental engineering, or a related field with a focus on machine learning as well as physical modelling and simulation
- Good understanding of partial differential equations and fluid dynamics in particular
- Good understanding of machine learning algorithms and techniques
- Good knowledge of English in speaking and writing; German is appreciated, but not required

Nice to have

- Practical experience with programming in an AI related environment (Python, TensorFlow, PyTorch, etc.)

Our offer

- Open-ended contract, 40 hours per week, negotiable
- Flexible working hours, home office option, well-equipped workplace
- Working on one of the most pressing challenges of our time, contributing to climate change adaptation, e.g. by improving heavy rain and flood hazard maps in collaboration with domain experts and end users
- Location: Vienna / Austria, office easily accessible by means of public transport (U1 subway stop VIC)
- Salary according to collective labor agreement (IT-Kollektivvertrag) including bonus for 13th and 14th month (monthly min. FT 3.077, - EUR) with overpay depending on qualification, previous professional experience
- Supportive atmosphere in an inclusive team
- Opportunity to pursue your PhD in cooperation with one of our scientific partners

Applications are welcome!

Please forward your application documents to Franziska Steyer-Beerman (HR) via

e-mail to franziska@vrvis.at

VRVis being an equal opportunity employer would like to counter the lack of female researchers in the visual computing field. Therefore, we highly encourage female candidates to apply.

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http://www.vrvis.at