Simon Klüttermann

psorus.de | Simon.Kluettermann@rwth-aachen.de | +4915779789970 | Github | CV

Laboratoire de Physique　　　　　　　　　　　　　　　　　January 31, 2021
ENS de Lyon and CNRS
46, allée d'Italie
F-69364 Lyon cedex 07

Dear Prof. Bouchet,

i am currently looking for a PHD position, and the one you advertise here is quite interesting to me. I would like to pursue a career between some physical application and machine learning, and your advertised position would allow me to nicely combine things I already know about with things I would like to learn more about. And I might not have been able to see myself doing climate science even a couple month ago, but looking at your advertisement it seems quite enticing and I love learning new things.

Using the knowledge and skills I have acquired in my master studies, I also believe that I can provide significant value to your research group, while providing me invaluable experience to prepare me for my future career.
In (my own projects and) my theses, I have applied knowledge of machine learning and especially anomaly detection to (for example) finding new physics symptoms in jet events. Particle physics might be a bit different to your application, but I think machine learning makes it fairly easy to switch between applications. Also I have experience with working on low amounts of data (I had a model in my masters thesis that run on a few 100 events) as well as in less straight forward applications of machine learning (see my masters thesis or here and your idea of a feedback loop certainly interests me.
Regarding your Soft-skill requirements, I work well on my own, even though I also quite like to work with other peoples and frequent traveling would be problem for me.
I have never been really scared by climate change, since I believe that scientific progress can be much more powerful. And now that I have the skills to help, I would love the chance of contributing to something worth-wile.

Thank you for reading my cover letter and for considering me for this position.

Sincerely,

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CV Simon Klüttermann

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timeline

1997	born in mönchengladbach (germany)
2015	finished school (franz meyers gymnasium)
later that year	started studying physics (@RWTH university)
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	see Thesis abstract or Thesis download aswell as my Grades
2020	finished master studies
	see Thesis abstract or Thesis download aswell as my Grades
final grades	depending on my master thesis somewhere between 1.4 and 2.6 (more)
update 29.01	probably 1.6

Legend

🟢⚪⚪	>=O(1000)h of experience
⚪🟡⚪	O(100)h of experience
⚪⚪🔴	basic knowledge

skills

physics	see grades
machine learning	🟢⚪⚪ More...
tensorflow	🟢⚪⚪ More...
keras	🟢⚪⚪ More...
automatisation	🟢⚪⚪ More...
anomaly detection	🟢⚪⚪ More...
statistics	🟢⚪⚪ More...
genetical programming	⚪🟡⚪ More...
web scraping	⚪🟡⚪ More...
cryptography	⚪🟡⚪
blockchain	⚪🟡⚪ More...
web development	⚪🟡⚪ More...
sympy	⚪🟡⚪ More...
graph theory	⚪🟡⚪ More...
reinforcement learning	⚪🟡⚪
opengl	⚪⚪🔴
flask	⚪⚪🔴
microcontroller programming	⚪⚪🔴
vim	⚪🟡⚪
numpy	🟢⚪⚪
matplotlib	🟢⚪⚪
bash	⚪🟡⚪
latex	⚪🟡⚪
scipy	⚪⚪🔴

programming languages

python	🟢⚪⚪ More...
visual basic	🟢⚪⚪ More...
c++	⚪🟡⚪ More...
solidity	⚪🟡⚪ More...
php	⚪⚪🔴 More...
javascript	⚪⚪🔴 More...
html/css	⚪⚪🔴 More...

languages

german	🟢⚪⚪
english	🟢⚪⚪

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flask	⚪⚪🔴
microcontroller programming	⚪⚪🔴
vim	⚪🟡⚪
numpy	🟢⚪⚪
matplotlib	🟢⚪⚪
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programming languages

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c++	⚪🟡⚪ More…
solidity	⚪🟡⚪ More…
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