

Othmane Rifki  
+1-773-888-3269  
[othrif@gmail.com](mailto:othrif@gmail.com)

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Dear Wayfair recruiting team,

I am writing to inquire about the Senior Data Scientist position at Wayfair and located in Boston, MA. I came to learn about the position from a currency Wayfair employee, Matthias Mozer. With a PhD in quantitative physics research and five years' experience in some of Europe's leading research labs searching for rare signal processes among large backgrounds, employing numerous optimization and regression modeling algorithms, and leveraging machine learning techniques. I am confident I would be a valuable asset to your team.

In my current role as a Postdoctoral Fellow at DESY, I am leading a data analysis team to search for rare signals of dark matter using predictive modeling algorithms that are tested and validated using Monte Carlo simulated and collected data. I used adversarial neural networks to train models for classifying signal and background events which have improved the analysis performance by over 40%.

I am also developing a robotic assembly platform guided with an advanced vision system. I use computer vision algorithms to run pattern recognition on markers in silicon sensors with over 99% accuracy, achieving high repeatability and less intrinsic variability in automating the placement of these sensors.

It would be a pleasure to learn more about Wayfair's needs in terms of scaling and deploying machine learning solutions for the Paid Search platform and provide further insight into how my highly developed data analytic abilities, experience managing large data sets, robust predictive analytics, and machine learning skills can help your company achieve these results.

Thank you for your time and for considering my candidacy for this position. I look forward to hearing from you in the near future to schedule an interview.

Sincerely,

Dr. Othmane Rifki