



To whom it may concern

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October, the 21of 2024

Wael BACHTA Maître de conferences Associate Professor

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Subject: Declaration of HDR Completion

I, the undersigned, Wael Bachta, hereby declare on my honor that I obtained my **Habilitation à Diriger des Recherches (HDR)** in the year 203 at Sorbonne Université.

This statement is made truthfully and to the best of my knowledge. I understand that any false declaration may result in consequences as per the applicable laws and regulations.

Thank you for your attention to this matter.

Wael Bachta





