

**Allegato alla domanda di partecipazione**  
**Curriculum formativo, didattico, scientifico e professionale del candidato**

**Dichiarazione sostitutiva di certificazioni**

(Art. 46, D.P.R. 28 dicembre 2000 n. 445)

**Dichiarazione sostitutiva dell'atto di notorietà**

(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)

(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	R.D. n 522 20.03.2024
Informazioni aggiornate al	22.05.2024
Nome e Cognome	Aravind Selvaram Thirunavukarasu
Data di nascita	14/02/1994

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

**Esperienza professionale**

Periodo	Ente	Principali attività e responsabilità

**Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)**

Data	Titolo / Principali tematiche	Ente
09.2018 – 05.2024	Ph.D. Structural Bioinformatics	Adam Mickiewicz University in Poznan, Poland
06.2016 - 04.2018	Master of Technology – Computational Biology	Anna University, Chennai, India
11.2017 – 02.2018	Sumer Research Fellow – Department of Crystallography and Biophysics	University of Madras, Chennai, India
08.2011 - 11.2015	Bachelor of Technology – Industrial Biotechnology	SSIET Chennai, Affiliated to Anna University, India
05.2014 – 04.2015	Research Student – Department of Microbiology	Dr. A.L.M. PG Institute of Basic Medical Sciences. University of Madras, Chennai, India

**Publicazioni / Convegni**

Thirunavukarasu, A. S.*, Szeleper, K., Tanriver, G., Mitusinska, K., Gora, A., Brezovsky, J., Water migration through enzyme tunnels is sensitive to choice of explicit water model. bioRxiv 2023, doi: <a href="https://doi.org/10.1101/2023.08.14.553223">https://doi.org/10.1101/2023.08.14.553223</a>
Sequeiros-Borja, C., Surpeta, B., Thirunavukarasu, A. S. †, Dongmo Fomthum, C. J., Marchlewski, I., & Brezovsky, J. (2023). Water will find its way: transport through narrow tunnels in hydrolases. Journal of Chemical Information and Modeling <a href="https://doi.org/10.1021/acs.jcim.4c00094">https://doi.org/10.1021/acs.jcim.4c00094</a> .
Brezovsky, J.; Thirunavukarasu, A. S. †; Surpeta, B.; Sequeiros-Borja, C. E.; Mandal, N.; Sarkar, D. K.; Dongmo Fomthum, C. J.; Agrawal, N. TransportTools: A Library for High-Throughput Analyses of Internal Voids in Biomolecules and Ligand Transport through Them. Bioinformatics 2022, 38 (6), 1752–1753. <a href="https://doi.org/10.1093/bioinformatics/btab872">https://doi.org/10.1093/bioinformatics/btab872</a>
Poster: "Unravelling water transport paths in haloalkane dehalogenase and evaluating the role of water models in transport efficiency," GGMM 2023 – Young Modeller Conference, Toulouse, France, 05/2023.
Poster: "Exploring rare events of water transport in and out of buried active sites of hydrolytic enzymes," APFED 22 (Advances in Protein Folding, Evolution, and Design), Bayreuth, Germany, 04/2022
Poster: "Functional roles of transport pathways in water migration within hydrolytic enzymes with buried active sites," Biocat 2022 - 10th International Congress on Biocatalysis, Hamburg, Germany, 09/2022

Poster: "Exploring rare events of water transport in and out of buried active sites of hydrolytic enzymes," Febs **2021**- 45th FEBS conference, Ljubljana, Slovenia (Online), 07/2021 DOI: [10.1002/2211-5463.13205](https://doi.org/10.1002/2211-5463.13205)

Oral presentation: "Role of permanent and transient tunnels in water transport in haloalkane dehalogenase," COMPASS – the future of interdisciplinary science, September **2021**, Faculty of Biology, Adam Mickiewicz University in Poznan, Poland, 09/2021.

### **Altre attività scientifiche**

Database entry CCDC 1589923: Experimental Crystal Structure Determination.  
DOI:[10.5517/CCDC.CSD.CC1QCFVC](https://doi.org/10.5517/CCDC.CSD.CC1QCFVC)

### **Ulteriori informazioni pertinenti**

09.2018 – 10.2023 -PhD students representative for Laboratory of Biomolecular Interactions and Transport in International Institute of Molecular and Cellular Biology.

120+ hours of teaching experience for Structural Bioinformatics laboratory classes for undergraduates in Adam Mickiewicz University in Poznan.

Luogo, data e firma

Cagliari, 23/05/2024