

**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	Selezione pubblica per il conferimento di n. 1 Assegno di Ricerca della durata di 12 mesi Area: 09 - Ingegneria industriale e dell'informazione S.C.: 09/C1 Macchine e sistemi per l'energia e l'ambiente SSD: ING-IND/08; Responsabile Scientifico: Prof. Francesco Cambuli; Titolo del Progetto: Valutazione numerico-sperimentale di configurazioni innovative di turbina Wells
Informazioni aggiornate al	2024-04-24
Nome e Cognome	Tingyun Yin
Data di nascita	1993-03-12

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
2020-2021	Università degli Studi di Padova	Attività di Didattica Integrativa nel Corso di Laurea/Laurea magistrale in Ingegneria dell'Energia – Energetica; Responsabile dell'attività: Prof. Giorgio Pavesi
2020-2021	Università degli Studi di Padova	Borsa per lo svolgimento di attività di ricerca: Ricerca sui controlli passivi di riduzione/soppressione della cavitazione a nuvole. Responsabile scientifico: Prof. Giorgio Pavesi

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

Data	Titolo / Principali tematiche	Ente
2017-2022	Dottorato di ricerca in Ingegneria energetica	Università degli Studi di Padova
2016-2021	Dottorato di ricerca in Power Engineering and Engineering Thermophysics	Jiangsu University
2014-2016	Studio magistrale in Power Engineering and Engineering Thermophysics	Jiangsu University

1. Tingyun Yin, Giorgio Pavesi, and Shouqi Yuan. Influences of bio-inspired leading-edge tubercle on cloud cavitation around NACA 0009 hydrofoil[C]. The 15th European Turbomachinery Conference (ETC15) Turbomachinery, Fluid Dynamics and Thermodynamics, 24-28 April 2023, Budapest, Hungary
2. Tingyun Yin, Giorgio Pavesi, and Shouqi Yuan. Revisiting RANS prediction of transitional flow on T3A flat plate subject to various freestream turbulences[J]. Computers & Fluids, 30 March 2023, 254: 105810
3. Tingyun Yin, Giorgio Pavesi, Ji Pei, and Shouqi Yuan. Numerical investigation on the inhibition mechanisms of unsteady cavitating flow around stepped hydrofoils[J]. Ocean Engineering, 1 December 2022, 265: 112540
4. Tingyun Yin, Giorgio Pavesi, Ji Pei, Shouqi Yuan, and Xingcheng Gan. Large eddy simulation investigation of cloud cavitation and wake vortex cavitation around a trailing-truncated hydrofoil[J]. Journal of Hydrodynamics, 14 November 2022, 34(5): 893-903
5. Tingyun Yin, and Giorgio Pavesi. Dynamic responses of pitching hydrofoil in laminar-turbulent transition regime[J]. Journal of Fluids and Structures, May 2022, 111: 103544

2010-2014	Laurea in Thermal Energy and Power Engineering	Jiangsu University
-----------	--	--------------------

Pubblicazioni / Convegni

6.	Xingcheng Gan, Giorgio Pavesi, Ji Pei, Shouqi Yuan, Wenjie Wang, and Tingyun Yin. Parametric investigation and energy efficiency optimization of the curved inlet pipe with induced vane of an inline pump[J]. <i>Energy</i> , 1 February 2022, 240: 122824
7.	Tingyun Yin, Giorgio Pavesi, Ji Pei, Shouqi Yuan, Giovanna Cavazzini, and Guido Ardizzon. Lagrangian analysis of unsteady partial cavitating flow around a three-dimensional hydrofoil[J]. <i>Journal of Fluids Engineering - Transactions of the ASME</i> , April 2021, 143(4)
8.	Tingyun Yin, Giorgio Pavesi, Ji Pei, and Shouqi Yuan. Numerical investigation of unsteady cavitation around a twisted hydrofoil[J]. <i>International Journal of Multiphase Flow</i> , February 2021, 135: 103506
9.	Tingyun Yin, Giorgio Pavesi, Ji Pei, and Shouqi Yuan. Numerical analysis of unsteady cloud cavitating flow around a 3D Clark-Y hydrofoil considering end-wall effects[J]. <i>Ocean Engineering</i> , 1 January 2021, 219: 108369
10.	Ji Pei, Majeed Koranteng Osman, Wenjie Wang, Jianping Yuan, Tingyun Yin, and Desmond Appiah. Unsteady flow characteristics and cavitation prediction in the double-suction centrifugal pump using a novel approach[J]. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , May 2020, 234(3): 283-299
11.	Ji Pei, Majeed Koranteng Osman, Wenjie Wang, Desmond Appiah, Tingyun Yin, and Qifan Deng. A Practical Method for Speeding up the Cavitation Prediction in an Industrial Double-Suction Centrifugal Pump[J]. <i>Energies</i> , 31 May 2019, 12(11): 2088
12.	Wenjie Wang, Majeed Koranteng Osman, Ji Pei, Xingcheng Gan, and Tingyun Yin. Artificial neural networks approach for a multi-objective cavitation optimization design in a double-suction centrifugal pump[J]. <i>Processes</i> , 27 April 2019, 7(5): 246
13.	Wenjie Wang, Ji Pei, Shouqi Yuan, Xingcheng Gan, and Tingyun Yin. Artificial neural network for the performance improvement of a centrifugal pump[C]. <i>IOP Conference Series: Earth and Environmental Science</i> , March 2019, 240(3): 032024
14.	Jinfeng Zhang, Daniel Adu, Yujian Fang, and Tingyun Yin. Review of the sub-Saharan African small hydropower situation[J]. <i>Proceedings of the Institution of Civil Engineers–Energy</i> , August 2018, 171(3): 129-139
15.	Wenjie Wang, Ji Pei, Shouqi Yuan, and Tingyun Yin. Experimental investigation on clocking effect of vaned diffuser on performance characteristics and pressure pulsations in a centrifugal pump[J]. <i>Experimental Thermal and Fluid Science</i> , January 2018, 90: 286-298
16.	Tingyun Yin, Ji Pei, Shouqi Yuan, Majeed Koranteng Osman, Jiabin Wang, and Wenjie Wang. Fluid-structure interaction analysis of an impeller for a high-pressure booster pump for seawater desalination[J]. <i>Journal of Mechanical Science and Technology</i> , 21 November 2017, 31: 5319-5328
17.	Tingyun Yin, Ji Pei, Shouqi Yuan, and Wenjie Wang. Analysis of fluid-structure interaction characteristics for impeller of residual heat removal pump[J]. <i>Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering</i> , 1 May 2017, 33(9): 76-83
18.	Ji Pei, Tingyun Yin, Shouqi Yuan, Wenjie Wang, and Jiabin Wang. Cavitation optimization for a centrifugal pump impeller by using orthogonal design of experiment[J]. <i>Chinese Journal of Mechanical Engineering</i> , 14 January 2017, 30(1): 103-109
19.	Tingyun Yin, Shouqi Yuan, Yin Luo, Ji Pei, and Wenjie Wang. Cavitation optimization for residual heat removal pump using orthogonal experimental method based on pumplinx[C]. <i>The 16th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery (ISROMAC2016)</i> , 10-15 April 2016, Honolulu, USA
20.	Peng Wang, Shouqi Yuan, Xiuli Wang, and Tingyun Yin. Numerical analysis on effects of nuclear main pump radial force under different eccentricities[J]. <i>Paiguan Jixie Gongcheng Xuebao/Journal of Drainage and Irrigation Machinery Engineering</i> , 25 June 2015, 33(6): 461-466

21. Tingyun Yin, Giorgio Pavesi, Giovanna Cavazzini, Ji Pei, and Shouqi Yuan. Numerical investigations of laminar-turbulent transition on two hydrofoils using OpenFOAM[C]. The 16th Asian International Conference on Fluid Machinery (ICFM16), 13-15 September 2021, Yokohama, Japan
22. Tingyun Yin, Giorgio Pavesi, Giovanna Cavazzini, Ji Pei, and Shouqi Yuan. Numerical investigation of unsteady cavitating flow around 3D hydrofoils[C]. SHF/AFM Conference on Hydraulic Machines and Cavitation At: School of Engineering of the HES-SO Valais-Wallis in Sion (Valais), 6-7 November 2019, Sion, Swiss

23. Tingyun Yin, Giorgio Pavesi, Ji Pei, Shouqi Yuan, and Daniel Adu. Comparison of various turbulence models applied to a twisted hydrofoil[C]. The 10th International Symposium on Cavitation (CAV2018) At: Baltimore, 14-16 May 2018, Maryland, USA
24. Ji Pei, Tingyun Yin, Shouqi Yuan, and Wenjie Wang. Analysis of unsteady cavitating flow induced impeller deformation and stress in a centrifugal pump by means of FSI[C]. The 2nd international Symposium of Cavitation and Multiphase Flow(2016ISCM), 22-25 October 2016, Zhenjiang, PRC

Altre attività scientifiche

Peer review, Energies, MDPI
Peer review, Electronics, MDPI
Peer review, Sustainability, MDPI
Peer review, Applied Sciences, MDPI
Peer review, Physics of Fluids, AIP
Peer review, European Turbomachinery Conference, EUROTURBO

Ulteriori informazioni pertinenti

2018 National Scholarship Award for Outstanding Ph.D. Student
A funded project within the framework of Postgraduate Research & Practice Innovation Program of Jiangsu Province (KYCX18_2237): Suppression of unsteady cloudy cavitating flow around a 3D hydrofoil with obstacles based on multi-objective optimization, 2018 ~ 2020
A Class C Project at Italy CINECA (HP10CZ82QS): LES investigation of cavitation flow around hydrofoil, 2020 ~ 2022

In fede

Letto, confermato e sottoscritto

Huaian, li 24/ 04/ 2024

IL DICHIARANTE

(firma per esteso e leggibile)