

CV

CHUNJIANG WANG

Blue-Sword R&D Centre¹
ZTE Co., Ltd., Nanjing 210012, CN
Department of Mechanical Engineering²
Xi'an Jiaotong University, Xi'an 710049, CN
Phone: +(86) 158-518-66727 | Web: <https://chjiwang1.github.io/c/>
Email: wangchj0307@stu.xjtu.edu.cn | codyj.me@gmail.com



EDUCATION

M.S., Xi'an Jiaotong University <i>Mechanical Engineering</i> <ul style="list-style-type: none">GPA: 3.81/4.0 Institute Rank: 2/37 IELTS: 7.0 (6.5/7.5/6/6) GRE: 150/170/3.5	Xi'an, CN 2019 - 2022
B.S., Nanjing University of Aeronautics and Astronautics <i>Airworthiness Management</i> <i>Mechanical Engineering, minor</i> <ul style="list-style-type: none">GPA: 3.85/5.0 Graduation Rank: 7/213	Nanjing, CN 2015 - 2019

EXPERIENCE

ZTE Corporation <i>Team Leader, R&D, Supply Chain Group</i>	Nanjing, CN 07/2022 - present
The University of Hong Kong <i>Research Assistant, Department of Mechanical Engineering</i>	Hong Kong, CN 06/2021 - 08/2021
Southern University of Science and Technology <i>Analyst Trainee, Department of Physics</i>	Shenzhen, CN 09/2021
Kharkiv National University, Ukraine <i>Exchange Student, School of Physics</i>	Kharkiv, UKR 06/2018 - 02/2019

HONORS AND AWARDS

✚ Excellent Graduation with Honor (Top 1%, XJTU)	2022
Excellent Master Thesis (1%, top honor)	2022
Excellent Postgraduate & Cadre (1%)	2021
Excellent Graduate & Cadre (1%)	2019
✚ Blue-sword Fellow Bonus (0.1% awardees, ZTE)	2022 - 2024
Schlumberger National Fellowship (0.5%)	2021
National Encouragement Scholarship	2020
Recommended Postgraduate Scholarship (Exempt exam)	2019
Outstanding Student Scholarship (7 times gained)	2016 - 2022
✚ President Award, Global Open Competition (1%)	2024
President Special Award, Efficiency Proposal Task	2023
Golden Award, ZTE National Innovation Day (twice)	2023 - 2024
Golden Award, National Competition 'Challenge Cup' (4/379)	2021
Second Award, National Undergraduate Innovation Competition	2020
Second Award, National Ministry of Education of Graduation Dissertation Competition	2019

FEATURED PUBLICATIONS

Peer-reviewed Articles

- [1] **Wang C.**, Chen X*, Song Q, et al. Investment micro-casting 3D printed multi-metamaterial for programmable multimodal biomimetic electronics. *Device (CellPress)*. 3, 100658 (2025).
- [2] Shi J*, Tong Z, **Wang C.**, et al. Predictable thermoelectric performance of directly synthesized Bi_{0.5}Sb_{1.5}Te₃ using laser powder bed fusion additive manufacturing. *Ceram. Int.* 50, 2, 2921-2930 (2024).
- [3] Chen X*, Wen K, **Wang C.**, et al. Enhancing mechanical strength of carbon fiber-epoxy interface through electro-wetting of fiber surface. *Compos. Part B Eng.* 234, 109751 (2022).
- [4] Chen X*, Wen K, Cheng S, **Wang C.**, et al. In-situ damage self-monitoring of fiber-reinforced composite by integrating self-powered ZnO nanowires decorated carbon fabric. *Compos. Part B Eng.* 248, 110368 (2023).

¹ Main, retain job and suspend the salary in 02/2025.

² RA, part-in-time from 09/2022.



Proceeding Reports

- [1] **Wang C.** Chen X*, Song Q, et al. Investment micro-casting 3D printed polymeric programmable metamaterials for biomimetic multimodal electronics. *ACS Fall 2025. Oral*, Washington, DC, USA, August 17-21st (2025).
- [2] **Wang C.** Chen X*, J Zhang, et al. Multimodal, neurological, programmable multi-metamaterial bioelectronics via investment micro-casting mediated 3D printing. International Workshop on Bionic Engineering & Plenary Meetings of ISO/TC 266 Biomimetics (*IWBE 2025. Oral*), Vienna, Austria, September 23-27th (2025).
- [3] **Wang C.** Shi J, Chen X*, et al. Rapid synthesis and fabrication of thermoelectric pile using laser-regulated forming technique. Proceedings of the 15th International Conference on Frontiers of Design and Manufacturing (*ICFDM 2022. Poster*), Changchun, Jilin, China, August 17-19th (2022).
- [4] **Wang C.** Niu W, Song Q, et al. 3D printed water-soluble UV photopolymer for flexible sensor with sacrificial scaffolds and indirect molding. Proceedings of The 16th IEEE International Conference on Nano/Micro Engineered & Molecular Systems (*IEEE NEMS 2021. Oral*), Xiamen, Fujian, China, pp. 478-479 (2021).
- [5] **Wang C.** Chen X*, Wang S, et al. Flexible high-performed piezoelectric nanocomposite and its structural application. Proceedings of the 14th International Conference on Frontiers of Design and Manufacturing (*ICFDM 2020. Poster*), Xi'an, Shaanxi, China, September 12-14th (2020).
- [6] **Wang C.** Tiniakov D*, Alex R, et al. Reliability simulation and optimization of multilayered pump system on the base of discrete-time Markov chain. Proceedings of the 5th International Conference on mechanical and equipment reliability design (*ICMER 2019. Oral*), Nanjing, Jiangsu, China, March 6-8th (2019).
- [7] Yang D*, Guan J, **Wang C.** et al. Intelligent upgrade and practice of the small batch, multiple varieties production for sever assembly and package in ZTE-Binjiang Factory. MBA Collection of Management Case Research Center of Guanghua School of Management (*MBA E-cases 2024*), PKU, Beijing, China, June 23rd (2024).

Licensed Nation Patents

- [1] Chen X*, **Wang C.** et al (*mentor Prof. Xiaoming Chen as the first author, similarly hereinafter*). A 3D pressure sensor based on 3D printing template method and its preparation method. CN-ZL:202011642025.3 (2022)
- [2] Chen X*, **Wang C.** et al. A discrete fabrication method of two-dimensional nano-aerogel with designable three-dimensional structure. CN-ZL:202110475777.3 (2022)
- [3] Chen X*, **Wang C.** et al. Anisotropic thermal conductive flexible piezoelectric sensor and its micro-fabrication. CN-ZL: 202110562500.4 (2021)
- [4] Chen X*, **Wang C.** et al. A novel forming method for metal-based metamaterial electronics based on indirect additive manufacturing. CN-ZL:202110562340.3 (2021)
- [5] Chen X*, **Wang C.** et al. A device and instructed method for solid-liquid exchange of residuals in micropores. CN-ZL: 2021105 81806.4 (2021)
- [6] Chen X*, **Wang C.** et al. A soluble photosensitive resin and its preparation and curing method for suppressing layer patterns. CN-ZL: 202011639304.4 (2021)
- [7] Chen X*, Wen K, **Wang C.** et al. A method for improving the performance of fiber resin-based composite material. CN-ZL: 202111023062.0 (2021)
- [8] Chen X*, Wen K, **Wang C.** et al. A method for preparing fiber composite material with high interface strength. CN-ZL:202111008986.3 (2021)
- [9] Chen X*, Wang S, Shao J. **Wang C.** et al. A method for preparing flexible transparent conductive thin films based on micro stereolithography technology. CN-ZL: 202011640019.4 (2021)

RESEARCH INTERESTS

-  **Bioelectronics:** Self-powered and energy-conversion; Metamaterial (piezoelectrical); Soft matter. Soft Robot; Programmed and addressed devices; Interface strength; Cross-linking.
-  **Mechanics-driven:** Fabrication, Printing (PμSL), and LIGA curing for force-sensors & actuators.

RESEARCH PROJECTS

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|---|---------------------------------------|
| <p>[1] Flexible piezoelectric multi-metamaterial and biometric multimodal electronics.</p> <p><i>Master's Independent Project 1.</i></p> <p>NSFC (No.52172098), mentors: Prof. Chen X, Shao J, and Nicolas F.</p> <ul style="list-style-type: none"> • Biometric design of serious piezoelectric lattices composed of skin-inspired axial and radial units. • Higher-performed BNNS/CNT comfortable composites synthesis and characterization. • Tailored gradient metamaterials properties optimization and achieved multimodal demonstration. • Developed programmable devices with robust improvement in grasping and stiffness recognition. <p>Published journal: [1]; Invited conferences: [1-4]; Patents: [1, 3].</p> <p>Highlight research in media reports:</p> <p>CellPress mp.weixin.qq.com/s/IJZcwoTF9_DqdBhmDQuCa8Q</p> <p>The Paper m.thepaper.cn/newsDetail_forward_29947549</p> <p>Tencent News news.qq.com/rain/a/20250116A078JY00?suid=&media_id=</p> | <p>XJTU</p> <p>2019 - 2022</p> |
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- [2] **Soluble polymeric UV resin cross-scaled forming and error restrain.** **HKU**
Master's Independent Project 2. **2021**
 National Key R&D Program (2022GXLH-01-12), co-mentor: Prof. Lu Y.
 • Developed cross-scaled cured features and assessed multi-FMs demolding with no damage.
 • Resolved resin dissolution at ambient temperature, COMSOL simulation and theoretical analysis of droplet electrowetting infiltration and replacement in ultra-hydrone wax channels.
 Invited conference: [5]; Patents: [2, 4-6].
- [3] **Enhanced mechanism research of electro-alignment in epoxy lamination.** **NUTU**
Master's Corporate Project with NUTU lab. **2020**
 NSFC (No.52175544), co-mentors: Prof. Zhang J and He J.
 • Analytical modal establishment and electric field simulation of Maxwell force driven G alignment.
 • Experiments of interface reinforcement and toughening of the heterogeneous adhesion surfaces.
 Published journals: [3, 4]; Patents: [7, 8].
- [4] **Hybrid printed Bi₂Te₃ thermoelectric piles for energy conversion.** **SUSTech**
Master's Corporate Project with SUSTech lab. **2020**
 Operation funds of recruitment program (No.40021136100001), co-mentor: Prof. Shi J.
 • Research of carrier-phonon decoupling theory; Thermoelectric composite synthesis.
 • Conducted SLM of mixture powders; Properties simulation and Seebeck coefficient measurement.
 Published journal: [2]; Patent: [9].
- [5] **Reliability optimization and validation of dump mechanical design.** **khNU**
Bachelor's Graduation Task **2018 - 2019**
 Project of graduate academic training (No.190726-BK), mentor: Prof. Tiniakov D.
 • Reliability validation of multilayered pump system based on *Markov* chain.
 • Achieved dynamic simulation via Adams and Abaqus of virtual prototyping; Invited conference: [6].



ADDITIONAL WORK EXPERIENCES

- [1] **NPI and equipment digital upgradation.** **Nanjing, ZTE**
Hosted R&D Project **2022 - present**
 • On-line multi-sensor analytical system architecture via host-PC and *Mitsubishi* integration.
 • Screw machine design and control on *Simens* platform; Invited conference: [7].
- [2] **Presided over the application and approved biddings.** **Shenzhen, ZTE**
Associated Project Management **2023 - 2024**
 • Green & National Five-Star Site Factory upgraded and construction.
 • WEF-Lighthouse Factory planned, automatic connected, and built in Penang, Malaysia.

TEACHING ASSISTANT

- [1] **'The 13th Challenge Cup National Competition of Academic & Technological Works'** **11/2021**
 • Assisted administration of Prof. Jie Zhang.
 • First award (national); Outstanding award (provincial, Shaanxi).
- [2] **'Fabrication and Applications of Flexible Electronic Devices'** **03/2021**
 • Instructor: Prof. Xiaoming Chen (Spring 2021, XJTU).
 • Credit 3; Class: 36 juniors; Website: gr.xjtu.edu.cn/en/web/xiaomingchen/home
- [3] **'Scientific Salon of Modern Mechanical Engineering Development'** **09/2018**
 • Instructor: Prof. Dmytro Tiniakov (Fall 2018, KhNU).
 • Credit 2; Class: 28 juniors; Website: cca.nuaa.edu.cn/t862/2018/1208/c9811a144768/page.htm

EXTRACURRICULAR PROGRAM

-  **Person in Charge of Badminton Association.** **2023 - 2024**
 Team golden medal in the 6th ZTE badminton competition (Spring 2023).
-  **9th Chair of the Youth Volunteer Union of College.** **2017 - 2019**
 Church worship, free blood donation, tree planting, and volunteer nursing.

SKILLS

Programming: Python (Conda learning) | C++, C# | MATLAB | GX-Works | TIA portal | LabView | Teach-Pendant.
Engineering: CATIA, Pro/E, UG, SolidWorks, Rhino | Abaqus | COMSOL Multiphysics | Adams.
Illustrating: C4D | 3DMax | InDesign | Origin | Office.