

# Curriculum vitae: Yanhua Zong

Assistant Professor of Practice, Purdue University  
West Lafayette, Indiana 47906  
Phone: 765-464-9790 | Email: zong6@purdue.edu  
Portfolio: <https://yanhuazong.github.io/portfolio/>

## Summary

Passionate educator and web development expert with a strong background in front and back-end technologies. Currently teaching and mentoring the next generation of developers, with a focus on interactive learning, innovative web technologies, and fostering critical thinking. Dedicated to enhancing the educational experience through practical applications and emerging tech.

## Skills

- Programming Languages: JavaScript, PHP, HTML, CSS, Python, C++
- Frontend Technologies: React, Angular
- Backend Technologies: Node.js, Express
- Database Management: MySQL, MongoDB
- Version Control: Git
- Web Development Tools: VS Code, Webpack, NPM
- Responsive Design and Cross-Browser Compatibility
- Problem Solving and Debugging

## Work Experience

**Assistant Professor of Practice, Purdue University – West Lafayette, IN** **07/2023 – Present**

**Senior Web Developer, Purdue University – West Lafayette, IN** **07/2023 – 07/2024**

- **Led a dynamic development team:** spearheaded the team in creating innovative tools for various campus partners, enhancing overall operational efficiency; oversaw the development, maintenance, and optimization of websites owned by the Marketing and Communications department (Marcom).
- **Collaborated for success:** worked closely with cross-functional teams to conceptualize, design, and deliver high-quality web solutions aligned with institutional goals.
- **Training and Skill Development:** initiated and conducted training sessions for team members and campus partners, fostering continuous learning and skill development.

**Web Developer, Purdue University – West Lafayette, IN** **02/2019 – 07/2023**

- **Empowered campus partners:** developed tools catering to the unique needs of diverse campus partners, contributing to an improved collaborative environment.
- **Website Development and Maintenance:** played a pivotal role in the development and ongoing maintenance of websites under the purview of the Marcom department.
- **Cross-functional collaboration:** collaborated seamlessly with teams from different departments, ensuring the successful delivery of web solutions aligned with project objectives.
- **Training and Knowledge Transfer:** conducted training sessions on front-end development best practices and emerging technologies for team members and campus partners, fostering a culture of continuous improvement.

**Global Leadership Research Fellow, Kyoto University – Kyoto, Japan** **10/2010 – 09/2011**

- Developed a novel class of optical nanocomposites utilizing mesoporous silica particles as platforms for loading  $\beta$ -Ga<sub>2</sub>O<sub>3</sub> nanocrystals, showcasing the capability for multi-color light emissions.
- Mentored students in the process, providing guidance and support for their academic and research endeavors.

## Teaching Experience

### Training Facilitator, Purdue University – West Lafayette, IN

**04/2019 – Present**

- Designed and executed tailored training sessions for both team members and campus partners, offering comprehensive guidance on crucial topics such as web accessibility, SEO, and proficient usage of content management systems including Cascade and WordPress.

### Teaching Assistant, Kyoto University – Kyoto, Japan

**10/2007 – 10/2010**

- Supported students as a teaching assistant, addressing inquiries, and providing assistance to ensure a conducive learning environment. Engaged in proactive problem-solving and contributed to the overall effectiveness of the educational experience.

## Education

- |   |                          |
|---|--------------------------|
| • M.S. in Computer Graphics Technology, Purdue University, USA                      | <b>05/2017 – 05/2019</b> |
| • Ph.D. in Materials Chemistry, Kyoto University, Japan                             | <b>10/2007 – 09/2010</b> |
| • M.S. in Materials Science, Shanghai Institute of Optics and Fine Mechanics, China | <b>09/2004 – 07/2007</b> |
| • B.S. in Physics, East China Normal University, China                              | <b>09/2000 – 07/2004</b> |

## Projects

### [www.purdue.edu](http://www.purdue.edu) Website (2023)

- Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
- Role: Sole Developer
- Description: Spearheaded the development of a cutting-edge WordPress theme, incorporating versatile custom Gutenberg blocks to cater to diverse content requirements.

### [www.purdue.edu/space/](http://www.purdue.edu/space/) Website (2024)

- Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
- Role: Sole Developer
- Description: Designed and implemented archive block capable of archiving diverse content with filters and a search bar.

### [stories.purdue.edu](http://stories.purdue.edu) Website (2022)

- Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
- Role: Lead Developer
- Description: Implemented dynamic landing pages auto generated by filters for easy content updates.

### [marcom.purdue.edu](http://marcom.purdue.edu) Website (2021)

- Technologies: React, JavaScript, PHP, HTML, CSS, WordPress
- Role: Lead Developer
- Description: Served as the lead developer for developing the Marketing and Communications website, a resource hub for campus partners.

## Certifications

- Advanced React 2023
- Create High-Fidelity Designs and Prototypes in Figma 2023
- Increase SEO Traffic with WordPressIncrease SEO Traffic with WordPress 2023
- Build Wireframes and Low-Fidelity PrototypesBuild Wireframes and Low-Fidelity Prototypes 2022
- Conduct UX Research and Test Early ConceptsConduct UX Research and Test Early Concepts 2022
- Foundations of User Experience (UX) DesignFoundations of User Experience (UX) Design 2022
- Start the UX Design Process: Empathize, Define, and IdeateStart the UX Design Process: Empathize, Define, and Ideate 2022

## Representative Publications

1. **Yanhua Zong**, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka, "Local Structure of Amorphous EuO-TiO<sub>2</sub> Thin Films Probed by X-Ray Absorption Fine Structure", *Journal of the American Ceramics Society* 95, 716 (2012).
2. **Yanhua Zong**, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka, "Preparation and magnetic properties of amorphous EuTiO<sub>3</sub> thin films", *Journal of Non-Crystalline Solids* 356, 2389 (2010).
3. **Yanhua Zong**, Koji Fujita, Hirofumi Akamatsu, Shunsuke Murai, and Katsuhisa Tanaka, "Antiferromagnetism of perovskite EuZrO<sub>3</sub>", *Journal of Solid State Chemistry* 183, 168 (2010).
4. **Yanhua Zong**, Guangjun Zhao, Chengfen Yan, Xiaodong Xu, Liangbi Su, and Jun Xu, "Growth and spectral properties of Gd<sub>2</sub>SiO<sub>5</sub> crystal codoped with Er and Yb", *Journal of Crystal Growth* 294, 416 (2006).
5. **Yanhua Zong**, Guangjun Zhao, Jiang Zhu, and Jun Xu, "Growth and its spectroscopic properties of Sm:YAP crystal", *Journal of Crystal Growth* 291, 468 (2006).