

ZHIJUN TAN

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OBJECTIVE

A position in the research field of civil engineering with special interest in sustainable construction materials.

SKILLS & ABILITIES

- Experienced experiment skills for testing construction materials with complete knowledge system of Civil Engineering and fundamental research on cementitious materials.
- Familiar with programming language Matlab for scientific calculation.
- Proficient in LaTeX, Linux OS, AutoCAD and Microsoft Office.
- A popular blogger (<https://tumutanzi.com> & www.cementscience.com) and experienced webmaster for two organizations' websites.
- Fluent in Chinese and English.

EDUCATION

- Ph.D., Structural Engineering, Ghent University, Belgium, 2014.

Dissertation: [Experimental Study and Numerical Simulation of Hydration and Microstructure Development of Ternary Cement-Based Materials](#), supervised by Prof. Geert De Schutter & Prof. Guang Ye.

- Master, Structural Engineering, Harbin Institute of Technology, China, 2008.

Thesis: [Effects of Marine Biofilm on Chloride Permeability of Marine Concrete](#), supervised by Prof. Ba Hengjing.

- Bachelor, Civil Engineering, Zhengzhou University, China, 2006.

Awards & Honors: "Excellent University Student" of Henan Province, National College Student Scholarship winner, First Class Scholarship winner of Zhengzhou University.

EXPERIENCES

- Post-Doctoral Research Assistant of Prof. John Provis, Department of Materials Science and Engineering, The University of Sheffield, the UK, December, 2014 -- Now.
 1. Performing research on early age properties of alkali-activated concrete, such as reaction kinetics, rheology, setting (a joint project with Queen's University of Belfast and China partners from Southeast University, Hohai University and Hunan University of Technology).
 2. Leading the durability test of alkali-activated concrete in the framework of RILEM TC DTA-247.

3. Managing related laboratory work and supervising students' research.
- Ph.D. Researcher, Ghent University, Belgium, Oct. 2009 -- Oct. 2014.
 1. Performed research on project "Multi-scale Modeling of the Performance of Ternary Cement-based Materials", proposed a theoretic model of hydration of ternary blended cements, and numerically implemented it by programming.
 2. Gave presentations at 2 international conferences and 4 workshops.
 3. Worked as an occasional voluntary translator (English to Chinese) for several technical meetings in Ghent University, interpreting technical English speech to non-technical Chinese audience.
 - Master's Degree, Harbin Institute of Technology, China, Sept. 2006 -- July 2009.
 1. Arranged work on site, e.g. drilled concrete cores at tidal seaside.
 2. Conducted extensive experiments to investigate the durability of marine concrete.
 3. Utilized biology technology to investigate the bacterial on the surface of concrete.
 - Temporary lecturer of Harbin High School, Jan. -- May, 2008.
 Taught students course "construction materials" (in Chinese).

TEAMWORK LEADERSHIP EXPERIENCE

- Excellent collaboration with colleagues on research project from different backgrounds.
- Guided 26 Belgian Master students and 2 professors visiting famous construction projects of China.
- The vice president of Chinese Student Association of Ghent 2010.
- The initiator and organizer of a charity project for pupils in my hometown (still running).

INTERVIEWS AND TALKS

- China Construction Materials Newspaper, interviewed on the research of alkali-activated concrete and international scientific cooperation, 2015.
- Academic presentation at China University of Mining and Technology, 2015.
- A talk on self-motivation to 1000+ hometown senior middle school students, Hunan, 2015.
- China Youth Daily, interviewed on Belgium primary education system, 2013.
- JieFang Daily, interviewed on the Bitcoin economy in Europe, 2013.
- "Slim, gegeerd, gevreesd", Flemish magazine MO, interviewed on Chinese students in Belgium, 2012.

SELECTED PUBLICATIONS

- "Experimental investigation of hydration of ternary blended cement paste", 14th International Congress on the Chemistry of Cement, Beijing, 2015.
- The influence of water content and activator dose on the early reaction of alkali-activated slag/fly ash cements. 35th Cement & Concrete Science Conference (CCSC35). Scotland (UK), 2015.
- "Influence of particle size on the early hydration of slag particle activated by Ca(OH)₂ solution", Construction and Building Materials, 2014.
- "The ITZ Microstructure, Thickness and Porosity in Blended Cementitious Composite: Effects of Curing age, Water to Binder Ratio and Aggregate Content" (Co-authorship). Composites Part B: Engineering, 2014.
- "A microscopic study on ternary blended cement based composites" (Co-authorship). Construction and Building Materials, 2013.

- “The effect of Limestone Powder Addition on Strength of Slag Blended Cement”. The 7th International Conference on Concrete under Severe Conditions Environment and Loading, 2013, China.
- “A Reaction Kinetics Model of Blast-furnace Slag in Binary Blended Cement”. International Congress on Durability of Concrete, 2012, Norway.

REFERENCES

- Available on request by email: Zhijun.Tan@TanZhijun.com.