

Sidong Feng

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EDUCATION

- **Australian National University** Canberra, AU
Bachelor of Software Engineering (Honors) ; top 5% *Feb. 2016 – Present*
- **Blue Mountains Grammar School** NSW, AU
High School top 1% *Jul. 2013 – Nov. 2015*

PROJECTS

- **Stack Overflow Anchor Text Recommendation**
Dr Zhenchang Xing (Australian National University), Dr Chunyang Chen (Monash University) *Oct 2019 - Current*
 - **Data analysis:** Explore potential beneficial effects on anchor text changes in collaborative editing.
 - **Deep Learning:** Purpose BERT model trained with custom dataset to automatically extract and classify anchor.
- **Components Design Gallery, Tagging-based Search, Design Composition Critique**
Dr Zhenchang Xing (Australian National University), Dr Chunyang Chen (Monash University) *Nov 2018 - Nov 2019*
 - **Auto-created GUI Component Gallery:** Support design sharing and knowledge discovery beyond content
 - **Discovering UI Semantic and Predicting Tag:** Recommend and recover the pre-described tags for UI design
 - **Debugging GUI Design:** Help determine the visual aesthetics of design and suggest potential revision
 - **Deep Learning:** Propose FRCNN for auto-creation, Hybrid model for prediction, DCGAN for design aesthetics.
- **Dynamic Facial Stress Recognition in Temporal Convolutional Network**
Professor Tom Gedeon (Australian National University) *Feb 2019 - Jul 2019*
 - **Deep Learning:** Convolutional based model to automatically recognize temporal dynamic facial stress problem.
 - **Outlier Removal:** Feasibility of Bimodal Distribution Removal on added artificial outlier and real world noise.
 - **Previous Work Analysis:** Fundamental limitations of static processing characteristics of stress recognition.
- **Implementing Mathematical Functions in a Unum Library**
Dr Josh Milthorpe (Australian National University) *Feb 2018 - Jun 2018*
 - **Mathematical Implementation:** Feasibility of mathematical inductions on Log, Exp and Power in Unum.
 - **High Performance Analysis:** Estimating Accuracy, Time and Precision to analyse function efficiency.

EXPERIENCE

- **Leju (Suzhou)** Jiangsu, CN
UI Developer Intern *Nov 2018 - Feb 2019*
 - **Interface Design:** Designed the product application, guidelines and UI specification.
 - **Bug Testing:** Profiled, troubleshoot and fixed bugs for the high-volume internal web application.
 - **System Improvement:** Improved code readability and performance by reviewing the quality of code.
- **Civilise.ai** Canberra, AU
Software Developer Intern *Jul 2018 - Nov 2018*
 - **Data Preprocessing:** Developed CV modules to detect regions of change in satellite images at different time.
 - **Deep Learning:** Built a convolutional neural network to classify regions of change, and achieves 92% accuracy.
 - **Data Visualization:** Performed GIS operations on heatmap to cluster high concentration of property revolution.
 - **Software Documentation:** Constructed concise burndown chart, user story map, risk register and decision log.
- **OK RDY** Canberra, AU
Software Developer Intern *Feb 2018 - Jul 2018*
 - **Mobile Application:** Designed interface and implemented functionalities (malicious reporting, message system)
 - **Bugs Testing:** Applied Jira for bug tracking, led team to fix bugs through unit test in mentor-matching app.

- **China Life (Suzhou)** Jiangsu, CN
Software Developer Intern *Nov 2017 - Feb 2018*
 - **Software Management:** Responsible for debugging and repairing coding issues for application.
 - **Cross-browser Compatibility:** Re-factored functionalities and CSS for websites to ensure compatibility.
- **Building and Construction Council (Suzhou)** Jiangsu, CN
Civil Analyst Intern *Nov 2016 - Feb 2017*
 - **Building Coordination:** Assisted miscellaneous projects as assigned to insure a successful boutique opening.
 - **Progress Report:** Provided status reports to senior management to keep them apprised of progress.

PUBLICATIONS

- One double-blind paper is *In the process of submitting to ACM Conference on Computer Supported Cooperative Work and Social Computing*. [**CSCW 2020**].
- **S. Feng**, C. Chen, Z. Xing. "Gallery D.C.: An Auto-created GUI Component Gallery for Design Search and Knowledge Discovery", *In the process of submitting to International Conference on Software Engineering*. [**ICSE Demos 2020**].
- **S. Feng**. "Dynamic Facial Stress Recognition in Temporal Convolutional Network", Proceedings of the Springer on Neural Information Processing, vol 1142, ICONIP, December 2019, pp. 698-706 [**ICONIP 2019**]. This paper is also published in ANU Bio-inspired Computing conference [**ABCs 2019**].
- C. Chen, **S. Feng**, Z. Xing, L. Liu, S. Zhao, J. Wang. "Gallery D.C.: Design Search and Knowledge Discovery through Auto-created GUI Component Gallery", Proceedings of the ACM on Human-Computer Interaction, Volume. 3, No. CSCW, November 2019, pp. 180:1-180:22 [**CSCW 2019**].

AWARDS

- High Distinction in Algorithms, Mathematics, Database Analysis, Software Computing. [at ANU]
- Top 5 Award in Innovation ACT 2018 (with \$8,750 grant). [in Civilise.ai]
- Reached a primary intent of cooperation with the Queanbeyan council, NSW, Australia. [in Civilise.ai]
- 'Start-up of the Year' award in the Digital Canberra iAwards 2018. [in OK RDY]
- Top student in Mathematic Extension 1&2, English as Second Language and Information processes and technology [at BMGS].
- Top 20% in Australian Mathematics Competition.

PROGRAMMING SKILLS

- **Languages:** Python, Java, Javascript, SQL, HTML, C, Haskell **Technologies:** Sketch, Photoshop, ArcGIS

PERSONAL

- Paper Art Design, Certified Skydiver, SSI Water Diver, Amateur Go rank 2 dan