

# Stanley, Yong Wai Keong

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| <b>Education</b>                       |  |
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| 2000-2004                              | <b>University of Illinois at Urbana Champaign</b><br>M.S. Statistics (GPA 4.0)<br>M.S. Computer Science (GPA 3.95)<br><i>Thesis on Automatic Text Mining to track the History of Ideas</i><br>B.S. Computer Science (GPA 3.89)   |
| Fall 2005-Current                      | <b>Nanyang Technological University, School of Computer Engineering</b><br>Phd (Candidate) Part-time<br>Advisers: Dr Bertil Schmidt, Dr Wayne Mitchell   |
| <b>Experience<sup>1</sup></b>          |  |
| 2005-2006                              | <b>Genvea, Bioinformatics startup</b><br>Part time consultant  |
| 2004-Current                           | <b>Dorma GmbH, Singapore.</b><br>Systems Analyst   |
| 2003-2004                              | <b>UIUC School of Chemical Sciences.</b><br>Research Assistant in the <i>Zhao research group (Bioinformatics)</i><br><b>UIUC Department of Computer Science.</b><br>Teaching Assistant   |
| 2003 Late Summer                       | <b>Accenture Technology Labs, Chicago, Illinois.</b><br>Research Intern  |
| 2003 Spring & Early Summer             | <b>Caterpillar Inc, Peoria, Illinois.</b><br>Intern: Thin Films team (Model building), Furnace Atmosphere Management System Team<br><b>Caterpillar Inc, Champaign, Illinois.</b><br>Student Consultant   |
| <b>Relevant Skills</b>                 |  |
|  | <ul style="list-style-type: none"> <li>• Significant development experience with R/S-plus idiom of statistical programming. Trained but not current in the use of SAS and Mathematica.</li> <li>• Deep knowledge of Java and PERL, proficiency in PHP, C++ languages.</li> <li>• Statistical Techniques: Multivariate Statistics, Survival Models, Generalized Linear Models, Data mining (with Statistical learning methods), Natural language processing, Stochastic Calculus, Categorical data analysis.</li> <li>• Six Sigma Green Belt</li> </ul> |
| <b>Activities</b>                      |  |
| Sep 2002 - 2004<br>2003 & 2004<br>2002 | <ul style="list-style-type: none"> <li>• Chairman of Special Interest Group in Knowledge Discovery and Data mining</li> <li>• Participating in KDD Cups, team leader with Professor Han Jiawei as adviser</li> <li>• Designed and wrote specifications for a decision support system for marketing, to be used in an academic environment. Project leader for implementation known as DSM<sup>2</sup>.</li> </ul>  |
| Jan 1998 – Apr 2000<br>Mar 2002-2004   | <ul style="list-style-type: none"> <li>• Military Service, Republic of Singapore Air Force, Singapore</li> <li>• Editor of <a href="http://www.thefreepaper.com">www.thefreepaper.com</a>, now defunct.</li> </ul>   |
| <b>Awards</b>                          |  |
| 2004-2005                              | • Hewlett Packard Scholarship for MSC. Bioinformatics at Nanyang Technological University  |
| 2000-2004                              | • Economic Development Board of Singapore, Firefly Scholarship (Overseas award)  |
| 2002                                   | • 2 <sup>nd</sup> Prize in Nationals of the Andersen Business Consulting Challenge, 1 <sup>st</sup> Prize in the Midwest competition   |
| 2000-2003                              | • Dean's List & James Scholar  |
| 2002                                   | • Accenture and College of Engineering award for outstanding leadership and academic achievements  |
| 2001                                   | • Mother's association book award for perfect GPA as a freshman  |

<sup>1</sup> See second page for details

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| <p><b>Details for work experience</b></p> <p><b>Genvea, Part time consultant</b></p> <ul style="list-style-type: none"> <li>• Discriminative model construction using significance analysis of Microarray data from AML cases (Using PAM, SAM, Empirical Bayes Models, RandomForest, Distance Weighted Discriminant)</li> <li>• R workflows for Genvea's Java based bioinformatics workflow solution (CASCADE)</li> </ul>  |
| <p><b>Dorma GmbH, Systems Analyst</b></p> <p><b>Quantifiable Achievements:</b></p> <ul style="list-style-type: none"> <li>• Reduced manual processing by 1 man hour per person per day in office.</li> <li>• Rationalized tracking process for defective products.</li> <li>• Improved safety in operations.</li> </ul> <p><b>Implemented a location reporting system using GPS and GRPS to track service personnel to facilitate dispatch and load balancing.</b></p> <ul style="list-style-type: none"> <li>• Created a Wiki whiteboard system, customized for use as a simplified Customer Relationship Management system suited to Dorma's needs.</li> <li>• Created Excel templates for transformation of financial data</li> <li>• Interfaced with SAP and anachronistic Microsoft Access based system for Bill of Materials (BOM) and customer information using Visual Basic and some ABAP.</li> <li>• Developed Embedded Visual Basic application for handheld devices to interface with the Wiki service system over mobile (GPRS) network.</li> </ul> <p><b>Web-based employee services</b></p> <ul style="list-style-type: none"> <li>• Leave application, Personal Schedule records, backup for engineering design drawings.</li> </ul> |
| <p><b>UIUC School of Chemical Sciences, Research Assistant in the Zhao research group (Bioinformatics)</b></p> <ul style="list-style-type: none"> <li>• Protein linker boundary prediction: improving on existing methods to produce a more generally applicable way of characterizing linker regions.</li> <li>• Explored ways of combining and selecting relevant orthogonal features in a minimal model, using Wavelet transforms.</li> </ul>   |
| <p><b>Accenture Technology Labs, Chicago, Illinois. Intern</b></p> <ul style="list-style-type: none"> <li>• Mining of transaction database from a large chain of supermarkets, looking specifically at possible means of identifying hoarding behavior. (Using SQL 2000)</li> <li>• Tying economic theory in with observed patterns of behavior to define various subsets of goods that may be hoarded, with survival models.</li> </ul>   |
| <p><b>Caterpillar Inc, Peoria, Illinois. Intern</b></p> <p><b>Thin Films team (Model building)</b></p> <ul style="list-style-type: none"> <li>• Manipulated data from production runs with neural networks, association mining and transformations to impute missing information for DOE analysis downstream</li> <li>• Built predictive model based on DOE result</li> </ul> <p><b>Furnace Atmosphere Management System Team</b></p> <ul style="list-style-type: none"> <li>• Developed Time Synchronization utility to reduce database time stamp errors resulting from time drift due to inaccurate PLC oscillators, and daylight savings time changes.</li> <li>• Database optimization.</li> <li>• Reduced database size by 50%, improving query speed up to 3 times, with an average improvement of 25%. (With Oracle database)</li> </ul>   |
| <p><b>Caterpillar Inc, Champaign, Illinois. Student Consultant</b></p> <p><i>T&amp;M program capstone project, part of a six man team of student consultants</i></p> <ul style="list-style-type: none"> <li>• Presented a business case to senior level management on the feasibility of market entry in a new industry. We constructed the case based on quantitative information drawn from secondary research from trade journals, internet resources and market reports.</li> <li>• Assessed and integrated data using <b>Six Sigma DMEDI</b> (Define, Measure, Explore, Develop and Implement) framework, including the House of Quality, QFD and Stage/Gate process.</li> </ul>  |

References available on request