CE6147 – Introduction to Bayesian Data Analysis
貝氏資料分析介紹

<table>
<tr><td>Instructor:</td><td>Min-Te (Peter) Sun, Ph.D.
Office: 工五館B213室
Office Phone: (03) 422-7151轉35213
Email: msun@csie.ncu.edu.tw
Website: http://www.csie.ncu.edu.tw/~msun/
Course website: http://lms.ncu.edu.tw/</td></tr>
<tr><td>Time and Place:</td><td>W 9:00A – 11:50A 工五館 A306</td></tr>
<tr><td>Office Hours:</td><td>Wed and Thu 4:00P – 5:30P, or by appointment</td></tr>
<tr><td>TA:</td><td>江毓晴e890316@gmail.com
邱柏瑋h23468270@gmail.com
邱子宸kenchiu0507@gmail.com
朱席靚bbbb45464546@gmail.com
何若婷aj880923@gmail.com
陳家偉nk960106@gmail.com
王彬宇r0976439561@gmail.com
楊歷恆ckyismydad@gmail.com
Office: 工五館B322
Office Phone: (03) 422-7151轉35357</td></tr>
<tr><td>TA's Office Hours</td><td>Tu 4:00P – 5:00P, Th 5:00P – 7:00P, or by appointment</td></tr>
<tr><td>Description:</td><td>This course provides a bridge between undergraduate training and modern Bayesian methods for data analysis, which is becoming the accepted research standard. Knowledge of algebra and basic calculus is a prerequisite.</td></tr>
<tr><td>Text:</td><td>Osvaldo Martin, Bayesian Analysis with Python: Introduction to statistical modeling and probabilistic programming using PyMC3 and ArviZ
2nd Ed., 2018. Packt Publishing.
ISBN-13: 978-1789341652</td></tr>
<tr><td>Grading:</td><td><table>
<tr><td>Written Assignments</td><td>45% (3 higher ones out of all assignments, 15% each)</td></tr>
<tr><td>Final Exam</td><td>30%</td></tr>
<tr><td>Final Project</td><td>25% (10 for presentation and 15 for report)</td></tr>
<tr><td>Total</td><td>100%</td></tr>
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<tr><td>Academic Misconduct Policy:</td><td>You are encouraged to discuss homework assignments with each other. However, you are individually responsible for the homework assignments and exams. You are NOT allowed to copy assignment from each other. Any offense of this policy will be reported to the Academic Honesty Committee. If you are having difficulties, see me or TA during office hours or schedule a meeting with us via email.</td></tr>
<tr><td>Disabilities:</td><td>Students who need accommodations are asked to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, please call me to arrange the meeting time.</td></tr>
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Chapter	Topic:
0	Getting Started
1	Thinking Probabilistically
2	Programming Probabilistically
3	Modeling with Linear Regression
4	Generalizing Linear Models
5	Model Comparison
6	Mixture Models
7	Gaussian Processes
8	Inference Engines
	Final Exam (5/31)
	Project Presentation (6/7)