

## 2014 YCCSA SUMMER SCHOLARSHIP PROJECT SUBMISSION

This form is for prospective project supervisors to submit their projects to be included in the YCCSA Summer Scholarships Programme for 2014.

It is the purpose of the Summer School that any projects submitted are interdisciplinary in nature.

<b>Date</b>	06/02/14
<b>Main Supervisor's Name</b>	<i>Dr Jan Stochl, (Expertise in Maths, Movement Science. Applied Psychometrics / Statistical Computing) Research Fellow, Department of Health Sciences and MRC HeRC/Farr Institute</i>
<b>Main Supervisor's Department</b>	<i>Department of Health Sciences, Mental Health and Addictions Research Group (MHARG) JS is Research Fellow to Professor Tim Croudace &amp; Professor Kate Pickett.</i>
<b>Co-supervisors' name(s) and Departments</b>	<i>* Professor Tim Croudace, Chair in Psychometric Epidemiology, Hull York Medical School and Department of Health Sciences. Lead for the White Rose Social Science DTC Advanced Quantitative Methods Development Group. Jan R. Böhnke, Research Fellow, and Mark Wilson, Research Centre for Social Sciences IT Manager</i>
<b>Project Title</b>	<b><i>BlackDogCAT: development of research capacity building training materials for Psychometric simulation studies using freeware – a distance learning development initiative exploiting R libraries / code and Firestar</i></b> <ul style="list-style-type: none"> <li>• <i>Black Dog is the term that Winston Churchill used to describe his depressions.</i></li> <li>• <i>R libraries for adaptive testing can be found in the Cran Psychometrics View</i></li> <li>• <i>Firestar is freeware produced by the US PROMIS project Assessment Centre</i></li> </ul>
<b>Project Description</b>	<i>The student will be involved in co-production and coding of short syntax scripts and slides to explain and demonstrate the concept and potentials of adaptive testing in health. and well-being. The project would suit a student interested in pedagogical aspects and training components as well as one interested in generating a pilot version of a distance learning module in simulation based psychometrics materials with an experienced team.</i>
<b>Required skills</b>	<i>Mathematics and computer skills for applied statistics plus an interest in (mental) health. Inclination towards pedagogical aspects and also skills in PPT slide creation for teaching.</i>
<b>Project dates</b>	<i>Monday, 14 July 2014 and finishing on Friday, 12 September 2014.</i>
<b>Other information</b>	<i>This Stochl/Croudace project has synergies with the Boehnke/Cairns project advertised. The intern will have the opportunity to learn from a supervisory team that brings together staff from across science, social science computing and health sciences departments. The intern will have the opportunity to take part in social science and statistics training activities offered by Böhnke/Croudace/Stochl supported by Wilson and Cairns.</i>
<b>References</b>	<b><i>Croudace, T. J., &amp; Böhnke, J. R. (2013). Item bank measurement of depression: will one dimension work?. Journal of Clinical Epidemiology, doi: 10.1016/j.jclinepi.2013.08.002; Stochl, J., Jones, P.B., &amp; Croudace T (2012). Mokken scale analysis of mental health and well-being questionnaire item responses: a non-parametric IRT method in empirical research for applied health researchers. BMC Medical Research Methodology, 11, 12:74. doi: 10.1186/1471-2288-12-74.</i></b>

please email the form to sarah.christmas@york.ac.uk