



**Dr. Opoku, Alex Akwasi**

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<p>Educational Curriculum</p>	<ul style="list-style-type: none"> <li>• <b>1997 to 2001:</b> BSc. in Mathematics, Kwame Nkrumah University of Science and Technology, (KNUST), Kumasi, Ghana.</li> <li>• <b>2002 to 2005:</b> MSc. in Mathematics, University of Kaiserslautern, Kaiserslautern, Germany.</li> <li>• <b>2005 to 2009:</b> PhD in Mathematical Physics, University of Groningen, Groningen, The Netherlands.</li> </ul>
<p>Professional Experience</p>	<ul style="list-style-type: none"> <li>• <b>2010 to 2012:</b> Postdoctoral fellow, Mathematical Institute of University of Leiden</li> <li>• <b>January to December 2013:</b> Postdoctoral fellow, Delft Institute of Applied Mathematics, Delft University of Technology</li> <li>• <b>2014 to 2016:</b> <b>Lecturer</b>, Mathematics and Statistics Department, University of Energy and Natural Resources (UENR)</li> <li>• <b>2017 to date:</b> <b>Senior Lecturer</b>, Mathematics and Statistics Department, UENR</li> </ul>
<p>Current research interest</p>	<ul style="list-style-type: none"> <li>- Gibbs measures and the Gibbs properties of their transforms</li> <li>- Variational Principle</li> <li>- Statistical Mechanical Modelling of Socioeconomic behaviour</li> </ul>
<p>Research methods</p>	<ul style="list-style-type: none"> <li>- Interacting particle systems, Large deviation Theory, Variational Analysis</li> </ul>
<p>Publications</p>	<ol style="list-style-type: none"> <li>1. A.A. Opoku, K.O. Edusei, A Conditional Curie–Weiss Model for Stylized Multi-group Binary Choice with Social Interaction, J Stat Phys, <a href="https://doi.org/10.1007/s10955-018-1988-y">https://doi.org/10.1007/s10955-018-1988-y</a> (2018)</li> <li>2. C. Kuelske and <b>A.A. Opoku</b>. <i>Continuous spin mean-field models: Limiting kernels and Gibbs properties of local</i></li> </ol>

	<p><i>transforms</i>. Journal of Mathematical Physics, Vol. 49 125215 (2008).</p> <p>3. A.C.D. Van Enter, C. Kuelske and <b>A.A. Opoku</b>. <i>Discrete approximations to vector spin models</i>, Journal of Physics A: Mathematical and Theoretical, Vol. 44, Number 47, 475002 (2011).</p>
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**Title of the talk:**

**Interdependent decision making: A view from statistical mechanical window?**

Abstract of the talk (10 lines):

*Interdependent decision making is a common theme in Social Sciences, Econometrics and Marketing. Here the emphasis is on how one's choice for a good or service is influenced by the choices made by the other members of a reference group.*

*In this presentation we will review some of the mathematical models used to understand socioeconomic phenomenon driven by choices made by individuals in a reference group. Statistical mechanical analogues of some of these models will be discussed.*