Nathan Gerard Jayy Hughes

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Education	Mark
PhD in Intelligent Games and Games Intelligence (IGGI) – University of York – York *2018 - Present*	
A fully-funded 4 year EPSRC scholarship. The project is under the supervision of Prof Paul Cairns, and investigates the player experience of 'open world' games, specifically around choice behaviour.	*Pending*
Master of Psychology (MPsych) - University of York – York *2014 - 2018*	2:1
4th Year Project: Trust in Autonomous Vehicles: How Perception Affects Proxemic Driving Behaviour	75
A and AS Levels - Cardinal Newman College – Preston *2012 - 2014*	
A Levels: Chemistry, Psychology, Sociology	A
AS Level: Biology	A
GCSEs - Holy Cross Roman Catholic High School – Chorley *2007-2012*	
GCSEs: Chemistry, Mathematics, Biology, Physics, English Literature, English Language, RE	A*- A
Diploma and BTECs: Environmental and Land Based Studies, ICT, PE	A*, Distinction

Research Experience

Voluntary Research Assistant/Student Technician, July 2016 – October 2018

Psychology Department, University of York

- Voluntary Research Assistant for Dr Cade McCall
- Student Technician July - September 2017 investigating the impact of autonomous vehicles on driving behaviour
  - Used a driving simulator and virtual reality to lead experiments with up to 4 simultaneous participants, having run over 100 participants independently
  - Performed exploratory data analysis assessing the extent manipulation of instruction (e.g. drive fast, drive carefully) had on driving behaviour
  - Assisted resolving coding errors e.g. incorrect scenario triggers from the script resulting in infinite values
- Since July 2016 assisted in projects such as creating a Unity project to play 360° videos of pre-recorded social interactions on the inside of an inverted sphere

Voluntary Research Assistant, May 2017 – October 2018

Wolfson Centre, University of York

- Assisting Dr Sophie Brigstocke with projects involving child diagnostic assessment data
- Inputted diagnostic assessment data to create a database for future psychological research on correlations between diagnoses, Strengths and Difficulties Questionnaire (SDQ) scores, and attainment
- Independently handled highly confidential information from 200 casefiles transferred from filing cabinets
- Designing a psychoeducational website for children with attention difficulties to highlight their strengths and weaknesses
  - In collaboration with LimeTrees, a part of the Child & Adolescent Mental Health Service (CAMHS)

Skills & Abilities

Computers and Coding
- Created a prototype decision-based story game built in Unity and written in C#, involving:
  - Coding of a dialogue parser and decision manager
  - Interface design for layout of the game window
  - Fictional writing of plot and choices
  - Character illustrations
  - *https://www.youtube.com/watch?v=WtpwxmtSWns*
- In-depth understanding of design programs such as Photoshop and Manga Studio 5.0 from work as a freelance graphic artist/illustrator taking commissions online

Research Analysis
- Proficient with data analysis systems such as RStudio and SPSS from degree work:
  - Wrote scripts in R to import, tidy and aggregate raw data from a driving simulator for analysis
  - Achieved 85% on the RStudio practical assessments for an Advanced Research Methods module
  - Computed a two-way repeated measures ANOVA on experimental reaction time data from E-Prime, testing the effect of sex on cuing attention via gaze

Communication
- Articulate and comfortable communicating in public and group settings across a variety of mediums
  - Examples include a TEDx talk, presenting posters of undertaken psychological projects, frequent lab discussion meetings and presentations to module groups

Public Engagement

LGBT Advocate
- TEDx UniversityofYork student speaker - *Fixing the SHELF (Apr 24th, 2016)*
  - Presented a talk on overcoming transgender inequalities in the UK bringing together personal experience and empirical research
  - *https://www.youtube.com/watch?v=JvMmPS03eX0*
- Volunteer for Lancashire LGBT, Preston
  - Delivered talks on transgender issues to police cadets and primary school teachers to highlight hate crimes and gender dysphoria in children
  - Conducted data analysis on group attendance at support groups to aid future planning by summarising and exploring demographical information
- Aided in publication of the updated Transgender Toolkit for schools in Lancashire, providing guidance for schools with gender variant pupils
- Panellist for a discussion on the Fluidity of Sexuality at the University of York, raising awareness of the intersectionality of gender and sexuality for transgender individuals
- Current member in the Trans Advisory Group for Lancashire LGBT, and the Research Advisory Board for Nottingham Centre for Gender Dysphoria
  - Offering feedback and advice on current research and events to aid in their conceptualisation

Freelance Illustrator and Writer
- Online graphic design artist taking commissions for a variety of illustrations such as icons, reference sheets
- Participant in NaNoWriMo (National Novel Writing Month) 2017, whereby wrote a 50,000-word novel draft within 30 days
- Creator and manager of an online blog dedicated to the development and progress of aforementioned novel series and associated illustrations
  - *http://terraneantales.tumblr.com/*

Publications

Scholten, O. J., Hughes, N. G. J., Deterding, S., Drachen, A., Walker, J. A., & Zendle, D. (2019, October). **Ethereum Crypto-Games: Mechanics, Prevalence, and Gambling Similarities.** In Proceedings of the Annual Symposium on Computer-Human Interaction in Play (pp. 379-389).

References available upon request