

# Almas Baimagambetov

## STATEMENT

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I am a Senior Lecturer and *Computing and Games* Subject Co-Lead at the University of Brighton, where I teach on software and game development courses. My PhD is in computer science and I remain an active researcher. I am the author of [FXGL](#), a game engine used by academic institutions to teach game development. I lead and contribute to numerous projects on [GitHub](#) and run an educational [YouTube](#) channel for software and games.

## WORK EXPERIENCE

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|---------------------|--|
| Feb 2020- Present   | Senior Lecturer in Computing, <i>University of Brighton, UK</i>    |
| Sept 2018- Jan 2020 | Lecturer in Computing, <i>University of Brighton, UK</i>           |
| Oct 2015- Aug 2018  | Part-time Lecturer in Computing, <i>University of Brighton, UK</i> |
| Oct 2012- Feb 2015  | Guest Speaker and Mentor (Volunteer), <i>Bellerbys College, UK</i> |
| July 2007- Oct 2015 | Software Developer (Freelance)                                     |

## EDUCATION

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|---------------------|--|
| Feb 2019- Oct 2020  | <b>PGCert in L&amp;T HE</b> , <i>University of Brighton, UK</i>  |
| July 2015- Dec 2019 | <b>PhD in Computer Science</b> , <i>University of Brighton, UK</i><br>Thesis: automated visualization of grouped networks using Euler diagrams and graphs<br>keywords: set theory, graph theory, topology, computational geometry & graphics |
| Oct 2012- July 2015 | <b>BSc Computer Science (Games)</b> , <i>University of Brighton, UK</i><br>Analysis of software development issues in large scale games<br>Project grade: <b>A+</b> Degree: <b>1st Class Honours</b>   |

## PROJECTS

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Explore [GitHub](#) for examples of projects using a range of programming languages.

The [FXGLGames](#) project is a collection of games developed using the FXGL framework in Java and Kotlin. The repository features a range of classic video games, including Space Invaders, Pac-man, Breakout and many more. All these games are open-source and suitable for both beginners and more experienced developers.

The [FXTutorials](#) project contains most of the JavaFX source code featured on the YouTube channel above. Having access to the source code of a video tutorial is beneficial for those who prefer to skim through the content, rather than follow alongside the tutorial.

[Zephyria](#) is an RPG game written in Kotlin that uses the FXGL framework. This game is a sophisticated example that showcases many of FXGL's features, combined with heavy use of Kotlin DSL.

I also help co-maintain community-oriented (and community-driven) JavaFX projects, such as [Scene Builder](#), [FXyz](#), [AwesomeJavaFX](#), and [FXDocs](#).

## AWARDS

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| Jan 2022  | Robotics AI Lab Research Bid (£158 000), UoB                 |
| Dec 2021  | Belong at Brighton Events Support (£375), UoB                |
| Oct 2019  | CLT Scholarship (£1 000), Centre of Learning & Teaching, UoB |
| June 2018 | Best Student Paper, Diagrams 2018 Conference                 |
| Sept 2015 | International Research Scholarship (50% fee reduction), UoB  |
| July 2015 | Best Final Year Development Project (£250), The FDM Group    |
| Nov 2014  | Academic Merit Based Scholarship (£1 000), UoB               |
| Nov 2013  | Academic Merit Based Scholarship (£1 000), UoB               |

## RESEARCH AND PROFESSIONAL TALKS (PREV. 4 YEARS)

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|---------------|---|
| February 2022 | AI Pathfinding in FXGL<br>(FOSDEM 2022 international software development conference)                                       |
| July 2021     | FXGL: Cross-platform JavaFX Game Engine<br>(JetBrains International Live)   |
| April 2021    | High-performance Game Engine for Java and Kotlin<br>(New York Java Group)   |
| March 2021    | FXGL Game Engine<br>(Silicon Valley JavaFX Group)   |
| February 2021 | A Practical Introduction to FXGL<br>(FOSDEM 2021 international software development conference)                             |
| January 2021  | A Practical Introduction to FXGL<br>(Brighton Java Meetup)  |
| November 2020 | Modern JavaFX Game Development with FXGL<br>(JFX-Days international conference)   |
| August 2020   | Evaluating Visualizations of Sets and Networks<br>(11th International Conference on the Theory and Application of Diagrams) |
| July 2020     | Impact of Gamified Work-based Learning on Student Experience<br>(Education and Student Experience Conference)               |
| June 2019     | Automated Visualization of Grouped Networks Using Euler Diagrams and Graphs<br>(CEM Conference)                             |
| April 2019    | Java and JavaFX Game Development<br>(Brighton Java Meetup)  |
| June 2018     | Generating Effective Euler Diagrams<br>(10th International Conference on the Theory and Application of Diagrams)            |

## PUBLICATIONS

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1. **Baimagambetov, A.**, Stapleton, G., Blake, A. and Howse, J. (2020) Evaluating Visualizations of Sets and Networks that Use Euler Diagrams and Graphs In: 11th International Conference on the Theory and Application of Diagrams, Tallinn, 24-28 August 2020.
2. **Baimagambetov, A.**, Howse, J., Stapleton, G. and Delaney, A. (2018) Generating Effective Euler Diagrams In: 10th International Conference on the Theory and Application of Diagrams, Edinburgh, 18-22 June 2018.
3. **Baimagambetov, A.** (2018) Automated Visualization of Grouped Networks In: 10th International Conference on the Theory and Application of Diagrams, Edinburgh, 18-22 June 2018. (Graduate Symposium report).