

DIEGO A. GALVEZ

• *Residence:* Las Vegas, NV • *Emails:* galvez0904@konamigaming.com, dihego91@hotmail.com

Education

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| • California State Polytechnic University, Pomona | June 2018 |
| M.S. in Applied Mathematics | GPA: 3.93 |
| • University of California, Berkeley | May 2016 |
| B.A. in Mathematics | GPA: 3.70 |

Skills, Languages, and Technologies

- *Mathematics:* Exceptional level of probability and combinatorics to create theoretical calculations of slot games.
- *Game Design:* Create game rules and math models of slot games.
- *Game Programming:* Implement game rules and other game elements using C#.
- *Monte Carlo Simulations:* Simulate games of chance using C# or Python.
- *Statistics:* Monitor various statistics of games.
- *Microsoft Excel:* Advanced level of Excel to create dynamical par sheets.
- *Regulations:* Knowledge of international slot machine regulations and North American jurisdictions.
- *Unity Engine:* Currently learning Unity.
- *Other Languages and Technologies:* Matlab, R, \LaTeX , HTML5, Git.

Employment

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| • Mathematician II, Konami Gaming, Inc. | September 2018 - Present |
| * Create and develop probabilistic models of slot games. | |
| * Collaborate with the creation of game rule ideas. | |
| * Implement and run random simulations of games. | |
| * Monitor and report game statistics. | |
| * Create and submit math documentation to GLI for approval. | |
| • Graduate Teaching Associate - Mathematics Professor, Cal Poly Pomona | January 2018 - June 2018 |
| • Math Teacher, C2 Education | March 2017- September 2017 |
| • Math Workshop Leader, UC Berkeley | July 2016 - August 2016 |
| • Math and Physics Tutor/Supplemental Instructor, Saddleback College | 2012 - 2014 |

"Random" Facts About Me

- My life has revolved around games.
- I own all the PlayStations 1 through 4.
- I love poker, but only played with real money once. Whenever I hand-shuffle a deck, I call it "perfect RNG."
- I love matrices and matrix theory.
- *For mathematicians only:* I do have a favorite theorem. It's the Cayley-Hamilton theorem.
- I'm currently working towards getting my Master's thesis published in a math journal.
- My favorite slot game math is Buffalo Gold's.
- My favorite slot machine game rule is Scarab's.
- I have a patent-pending game rule idea.
- In my opinion, Hold & Spin is the most innovative game rule in the slot machine industry.