

# Jessica Meyer

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## Academic record

- 2012 - present: PhD in Swarm Robotics, [University of The West of England \(UWE\) - Bristol Robotics Laboratory \(BRL\)](#). Min. duration: 3 years.
- 2008 - 2012: Master Cognitive Science - focus in Artificial Intelligence and 'Neuroinformatics and Robotics', [University of Osnabrück](#). Min. duration: 2 years.
- 2005 - 2006: Computer Science exchange student at [University of Passau](#).
- 2003 - 2007: Bachelor in Computer Science, [Federal University of Bahia \(UFBA\)](#). Final Grade: 7.7 (10). Min. duration: 4 years.
- 2003: Computer Science's Vestibular (university entrance qualification) of the [Federal University of Bahia \(UFBA\)](#). 29<sup>th</sup> Position (entrance competition: 16.63 students per place).
- 2002 - 2007: Bachelor in System Analysis, [State University of Bahia \(UNEB\)](#). Final Grade: 8.2 (10). Min. duration: 4.5 years.
- 2002: System Analysis' Vestibular (university entrance qualification) of the [State University of Bahia \(UNEB\)](#). 2<sup>nd</sup> Position (entrance competition: 51.33 students per place).
- 1995 - 2001: [Military School of Salvador \(CMS\)](#). Final Grade: 9.2 (10).

## Areas of scientific interest

Artificial Intelligence: Swarm Intelligence and Evolutionary Computing, Robotics.

## Theses

- 2012: A Role-Exchangeable Mixed Reality Robotic Soccer Team based on Swarms. [University of Osnabrück](#). Grade: 1.15 (1.0).
- 2007: Fuzzy Controllers for the positioning of the Goalkeeper in relation to the Ball in the Robotic 2D Soccer Simulation. [State University of Bahia \(UNEB\)](#). Grade: 10 (10).
- 2007: Fuzzy Controllers for the positioning of the Goalkeeper in relation to the Attacker in the Robotic 2D Soccer Simulation. [Federal University of Bahia \(UFBA\)](#). Grade: 9.5 (10).

## Publications

- Jessica Meyer and Marco Simões. **Controladores Fuzzy para o Posicionamento Sem Bola do Goleiro no Futebol de Robôs Simulado 2D**. In: 5<sup>th</sup> WTICG-BASE - 5<sup>th</sup> Workshop de Trabalhos de Iniciação Científica e Graduação Bahia, Alagoas e Sergipe, 2008, Vitória da

Conquista. Proceedings of the 8<sup>th</sup> Escola Regional de Computação Bahia, Alagoas e Sergipe (ERBASE), 2008. Sociedade Brasileira de Computação (SBC), Porto Alegre, 2007, vol. 1.

- Hugo da Luz, Jessica Meyer, Victor Souza, Simon Viegas, Marco Simões and Helder Aragão. **Controladores Fuzzy para Agentes Robôs Jogadores de Futebol**. In: 4<sup>th</sup> WTICG-BASE - 4<sup>th</sup> Workshop de Trabalhos de Iniciação Científica e Graduação Bahia, Alagoas e Sergipe, 2007, Vitória da Conquista. Proceedings of the 7<sup>th</sup> Escola Regional de Computação Bahia, Alagoas e Sergipe (ERBASE), 2007. Sociedade Brasileira de Computação (SBC), Porto Alegre, 2007, vol. 1.
- Hugo da Luz, Jessica Meyer, Jailsa Oliveira, Danilo Cruz, Leonardo Pessoa, Marco Simões, Helder Aragão and Ricardo Lima. **Bahia2D: Descrição do Time**. In: CBR - Competição Brasileira de Robótica, 2007, Florianópolis. Proceedings of the 8<sup>th</sup> Simpósio Brasileiro de Automação Inteligente (SBAI). Sociedade Brasileira de Automática (SBA), Florianópolis, 2007, vol. 1.
- Hugo Silva, Fábio Ferreira, Marco Simões, Jessica Meyer, Helder Aragão and Ricardo Lima. **Bahia-PV: O Time de Futebol de Robôs em Ambiente de Realidade Aumentada**. In: CBR - Competição Brasileira de Robótica, 2007, Florianópolis. Proceedings of the 8<sup>th</sup> Simpósio Brasileiro de Automação Inteligente (SBAI). Sociedade Brasileira de Automática (SBA), Florianópolis, 2007, vol. 1.
- Marco Simões, Helder Aragão, Victor Souza, Simon Viegas, Hugo da Luz and Jessica Meyer. **Bahia2D: Team Description**. In Proceedings of Robocup 2007, Atlanta. Robocup Federation, Zurich, 2007, vol. 1.
- Jessica Meyer. **LEDs Brancos Sem Fio**. [WirelessBrasil](#). 2007.

## Not Published

- Hannes Gräuler, Robin Kogelberg, Thomas Lampe, Jessica Meyer, Philipp Niermann, Mareike Paul, Roland Hafner, Sascha Lange and Martin Riedmiller. **Evaluation of Machine Learning Methods on a Swinging Humanoid**. In: IROS 2009 - IEEE/RSJ International Conference on Intelligent Robots and Systems.
- Hugo Silva, Jessica Meyer, Marco Simões, Helder Aragão and Ricardo Lima. **Bahia2D: Desenvolvimento de Controladores Fuzzy para Agentes Robôs Jogadores de Futebol**. In: SBIC 2007 - Simpósio Brasileiro de Inteligência Computacional.
- Marco Simões, Helder Guimarães Aragão, Victor Souza, Simon Viegas, Hugo da Luz Silva, Jessica Meyer. **Using Fuzzy Logic to Build a Heterogeneous Multiagent System for the Robotics Soccer Problem**. In: ENIA 2007 – Encontro Nacional de Inteligência Artificial.
- Marco Simões, Helder Guimarães Aragão, Victor Souza, Simon Viegas, Hugo da Luz Silva, Jessica Meyer. **Fuzzy Controllers for Improving Soccer Players Kick, Positioning and Passing**. In: Robocup Symposium 2007.

## Awards etc.

- 2011: 1<sup>st</sup> place (team leader) in the Mixed Reality league at [RoboCup German Open](#) 2011.

- 2010: 5<sup>th</sup> place (team leader) in the Mixed Reality league at [RoboCup Singapore](#) 2010.
- 2010: 3<sup>rd</sup> place (team leader) in the Mixed Reality league at [RoboCup German Open](#) 2010.
- 2009: 2<sup>nd</sup> place (team leader) in the Mixed Reality league at [RoboCup Graz](#) 2009.
- 2009: 2<sup>nd</sup> place (team leader) in the Mixed Reality league at [RoboCup German Open](#) 2009.
- 2008: 3<sup>rd</sup> place (team member) in the soccer competition of the Mixed Reality league at [RoboCup Suzhou](#).
- 2008: 2<sup>nd</sup> place (team leader) in the Mixed Reality league at [RoboCup German Open](#).
- 2007: 1<sup>st</sup> place (team member) in the Mixed Reality league at RoboCup Brazil Open.
- 2007: 3<sup>rd</sup> place (team member) in the 2D soccer simulation league at RoboCup Brazil Open
- 2007: 4<sup>th</sup> place (team member) in the soccer competition of the Mixed Reality league at [RoboCup Atlanta](#).
- 2007: participation (team member) in the 2D soccer simulation league at [RoboCup Atlanta](#).
- 2001: 1<sup>st</sup> place at the Mechatronic's Vestibular (university entrance qualification) of the [University of Technology and Science \(FTC\)](#).
- 2001: 1<sup>st</sup> place at the Biology's Vestibular (university entrance qualification) of the [Catholic University of Salvador \(UCSAL\)](#).
- 2001: 2<sup>nd</sup> place at the [Mathematical Olympiad](#) - Bahia Regional Phase.
- 2000: 2<sup>nd</sup> place at the [Mathematical Olympiad](#) - Bahia Regional Phase.
- 1999: 4<sup>th</sup> place at the [Mathematical Olympiad](#) - Bahia Regional Phase.
- 1999: 2<sup>nd</sup> place at the [Olimpíada de Maio](#) - Regional Rank.
- 1998: 3<sup>rd</sup> place at the [Mathematical Olympiad](#) - Bahia Regional Phase.
- 1998: 3<sup>rd</sup> place at the [Olimpíada de Maio](#) - Regional Rank.
- 1997: 5<sup>th</sup> place at the [Mathematical Olympiad](#) - Bahia Regional Phase.

## Research projects

- 2012 – present: Swarm Robotics. [Bristol Robotics Laboratory \(BRL\)](#).
- SS2009 - SS2011: Project and Working Group at University of Osnabrück on RoboCup Mixed Reality League: [Osna-Be! Knowledge-Based Systems Group](#).
- WS2008/09: Practicum at University of Osnabrück: Robotics - with KURT2 for the [SICK Robot Day. Knowledge-Based Systems Group](#).
- SS2008 – WS2008/09: Master Student Project at University of Osnabrück: Humanoid Robots. [Neuroinformatics Group](#).
- SS2008 – WS2008/09: Project and Working Group at University of Osnabrück on RoboCup Simulation League: Brainstormers. [Neuroinformatics Group](#).
- 2007: Member of the [Brazilian Robotic Team \(SBR\)](#).
- 2006 – 2008: Scientific Initialization on Intelligent Robotics at State University of Bahia. [Bahia Robotics Team \(BRT\)](#).
- 2005: IEEE Technological Olympiads: Robot War. [IEEE UFBA](#).

## **Languages**

- Portuguese: native.
- English: fluent.
- German: very good.
- Spanish: very good reading and listening.

## **Computer Skills**

- OS: Windows, Linux.
- Programming: C/C++, Pascal, Java, Visual Basic, Lisp, Prolog, NQC, Assembler.
- Web: HTML, Wiki, Flash.
- Visualization: OpenGL.

## **Other Experiences**

- 2005: Monitor of the 'Linux Course', realized by [IEEE UFBA](#). 20 hours.
- 2005: Teacher of the 'C Programming Course', realized by [IEEE UFBA](#). 20 hours.
- 2004: Marketing Director of the [Consult Júnior](#) (Junior Enterprise at [State University of Bahia \(UNEB\)](#)).
- 2002 - 2005: Member of the [Consult Júnior](#) (Junior Enterprise at [State University of Bahia \(UNEB\)](#)).

## **Memberships**

- [Mensa International](#). IQ: 170.