# Georgi Tinchev

Research Scientist | Computer Vision - Generative Learning - Robotics

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#### Education University of Oxford University of Edinburgh University of Aberdeen 2017 - 2021 2015 - 2016

PhD Engineering Science **Robotics, Computer Vision**  MSc Artificial Intelligence

2011 - 2015

BSc Computing Science

## Selected publications

InstaLoc: One-shot Global Lidar Localisation through Instance Learning	RSS, 2023
SKD: Keypoint Detection for Point Clouds Using Saliency Estimation	RAL + ICRA, 2021
Deep Laser Localization in Urban and Natural Environments on a CPU	RAL + ICRA, 2019

# Work Experience

#### Applied Scientist II

🔄 Amazon, London, UK

#### Oct 2021 - Present

Led research of an accented speech model, deployed to Irish English, Belgian Dutch, and Danish. Invented the first Amazon Large Language Model for speech synthesis. Developed scalable and adaptive speech technologies for improved user experience. Advised multiple teams and interns on computer vision and machine learning research. Published research on generative models for speech generation and voice cloning.

# Computer Vision Scientist (Intern)

XYZ Reality, London, UK

#### Oct 2020 - May 2021

Invented state-of-the-art model for correspondence networks for high resolution images. Evaluated Structure-from-Motion methods on various datasets. Invented metrics for evaluating image matching performance in AR/VR.

## Applied Scientist (Intern)

Amazon, Cambridge, UK

#### Nov 2019 - Aug 2020

Researched generative models for speech generation from various latent representations.

Distilled generative models to meet computational constraints. Designed, developed, and deployed large-scale machine learning models.

# Christel Skills

Deep Learning Frameworks: TensorFlow, PyTorch Transformers and Large Language Models: Extensive research and development experience Programming Languages: Python, C++ Robotics Frameworks: ROS, MOOS, LCM Computer Vision Libraries: OpenCV, Scikit, MATLAB, Eigen, Boost, TorchVision models Mathematical Tools: Linear Algebra, 3D Geometry, Probability Theory, Statistics

## Y Awards & Honors

New York Times article for creating the first accented generative speech model	Dublin, 2023
Patent: Configuration method for the display of a building information model	April 2021
Patent: Localisation of a Mobile Apparatus	Oxford, 2019
The Queen's Anniversary Prize Research Studentship	Oxford, 2017
EPSRC Doctoral Training Partnership Award	Edinburgh, 2016
Student Awards Agency Scotland Bursary	Aberdeen, 2011