

# Brian T. Quinn, Ph.D.

DATA OPERATIONS LEADER • NEUROSCIENTIST

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## Summary

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Ph.D.-trained data scientist and former neuroscientist with extensive experience leading multi-disciplinary teams, managing complex data programs, and implementing scalable operational processes. Proven ability to translate scientific and analytical insights into actionable workflows and standardized reporting. Skilled at coordinating across research, engineering, and business stakeholders to ensure consistent execution, quality control, and accuracy.

## Work Experience

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### CHARTER COMMUNICATIONS

Stamford, CT

SENIOR MANAGER – DATA & REPORTING, PROGRAMMING OPS & ANALYTICS

Sept 2019 - Present

- Supported Content Acquisition team with valuations and cost estimates of network viewing.
- Researched and designed customer affinity scores for Marketing outreach.
- Led a team of analysts in research of off-platform content to support negotiations with Content Programmers.
- Managed a team of developers and analysts to automate reporting and standardize processes for 200+ networks.
- Partnered cross-functionally with Legal, Product, Marketing, and Engineering teams to align on sensitive data workflows.
- Managed client relationships and deliverables for \$5M+ contracts.

### COMCAST

New York, NY

LEAD DATA SCIENTIST

Sept 2016 - Sept 2019

- Modeled viewing and viewer surveys in support of content negotiation that produced significant cost savings for Comcast.
- Created Audience Activation framework and supervised product development for targeted advertising based on viewing affinity.
- Constructed Programming Insights reporting tool from set-top box data to provide audience insights to programming teams.
- Led initiative to explore and incorporate new digital viewing data and ad spot data with existing sources.

### BURKE MEDICAL RESEARCH INSTITUTE

White Plains, NY

DATA SCIENTIST

July 2016 - Sept 2016

- Built interpretable models in R to predict patient outcomes for multi-site low-cost remote monitoring programs.
- Conducted applied research to identify movement biomarkers, supporting the development of low-cost scalable monitoring protocols.

### THE DATA INCUBATOR

New York, NY

DATA SCIENTIST FELLOW

2015

- Selected from over a thousand applicants to participate in a rigorous 2 month fellowship
- Completed numerous projects involving web scraping, SQL, NLP, machine learning, and MapReduce

### NEW YORK UNIVERSITY

New York, NY

PH.D. CANDIDATE

2006 - 2013

- Collected and analyzed large human electrophysiology data for multisensory integration experiments.
- Developed machine learning software to automatically detect abnormal brain tissue in MRIs.
- Designed web-based visualization tools for remote collaboration and feedback among distributed research teams.

### MARTINOS CENTER FOR BIOMEDICAL IMAGING/HMS/MIT

Charlestown, MA

RESEARCH TECHNICIAN

2002 - 2006

- Worked with a team of researchers and developers to create and support FreeSurfer software (used by thousands of scientists)
- Led training and supported over 200 international researchers through phone, email, and site visits
- Authored more than 20 peer-reviewed articles in scientific journals

## Education

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### New York University

New York, NY

PH.D. IN NEURAL SCIENCE

2013

- Focus: Computational Neuroscience, Dynamic Systems Analysis, Machine Learning

### University of Iowa

Iowa City, IA

B.S.E. IN BIOMEDICAL ENGINEERING

2001

- Focus: Computer Science, Electrical engineering, Statistics

## Technical Skills & Interests

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<b>Programming/Scripting Languages</b>	Python, R, SQL, Spark, Hive, Impala, Tableau, Javascript, C/C++, bash/tcsh, L <sup>A</sup> T <sub>E</sub> X
<b>Subject Matter Interests</b>	Health Science, Data Analysis, Machine Learning, Recommendation Systems
<b>Awards &amp; Publications</b>	NeuroImage Top Cited Article 2006-2010, Author of 36 Peer-Reviewed Articles

## Volunteering

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### North Brooklyn Community Boathouse

CANOE INSTRUCTOR & STEERING MEMBER & SAFETY COMMITTEE

- Managed the budget, organization, safety protocols, and maintenance of canoe services for over 300 members.
- Help collect and transport water samples at various locations along the East River for water quality testing.

Brooklyn, NY

2014-Present

## Publications

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### PUBLICATION HIGHLIGHTS

#### Intracranial cortical responses during visual-tactile integration in humans

Journal of Neuroscience 2014

Quinn BT, Carlson C, Doyle W, Cash S, Devinsky O, Spence C, Halgren E & Thesen T

#### An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest

Neuroimage 2006

Desikan RS, Ségonne F, Fischl B, Quinn BT, Dickerson BC, Blacker D, Buckner RL, Dale AM, Maguire RP, Hyman BT, Albert MS, Killiany RJ

#### Cortical feature analysis and machine learning improves detection of "MRI-negative" focal cortical dysplasia

Epilepsy & Behavior 2015

Ahmed B, Brodley C, Blackmon K, Kuzniecky R, Barash G, Carlson C, Quinn BT, Doyle W, French J, Devinsky O, Thesen T

#### Thickness of ventromedial prefrontal cortex in humans is correlated with extinction memory

PNAS 2005

Milad MR, Quinn BT, Pitman RK, Orr SP, Fischl B, Rauch SL

### ADDITIONAL PUBLICATIONS

#### Cortical thickness abnormalities associated with dyslexia, independent of remediation status

Neuroimage Clinical 2014

#### Functional neuroimaging abnormalities in idiopathic generalized epilepsy

Neuroimage Clinical 2014

#### Structural brain imaging in children and adolescents following prenatal cocaine exposure: preliminary longitudinal findings

Developmental Neuro 2014

#### Septal nuclei enlargement in human temporal lobe epilepsy without mesial temporal sclerosis

Neurology 2013

#### Default mode network abnormalities in idiopathic generalized epilepsy

Epilepsy & Behavior 2012

#### Individualized localization and cortical surface-based registration of intracranial electrodes

Neuroimage 2011

#### Abnormalities of cortical thickness in postictal psychosis

Epilepsy & Behavior 2011

#### Prolonged institutional rearing is associated with atypically large amygdala volume and difficulties in emotion regulation

Developmental Science 2010

#### Regional white matter volume differences in nondemented aging and Alzheimer's disease

Neuroimage 2009

#### The effect of early human diet on caudate volumes and IQ

Pediatric Research 2008

#### Detection of cortical thickness correlates of cognitive performance: Reliability across MRI scan sessions, scanners, and field strengths

Neuroimage 2008

#### Abnormal cortical folding patterns within Broca's area in schizophrenia: evidence from structural MRI

Schizophrenia Research 2007

#### Volumetric cerebral characteristics of children exposed to opiates and other substances in utero

Neuroimage 2007

#### Feasibility of multi-site clinical structural neuroimaging studies of aging using legacy data

Neuroinformatics 2007

#### Regional cortical thickness matters in recall after months more than minutes

Neuroimage 2006

#### Neuroimaging H.M.: a 10-year follow-up examination

Hippocampus 2006

#### Meditation experience is associated with increased cortical thickness

Neuroreport 2005

#### Effects of age on volumes of cortex, white matter and subcortical structures

Neurobiology of Aging 2005

#### Sequence-independent segmentation of magnetic resonance images

Neuroimage 2004