



Nicholas Berg

Organic/Analytical Chemist

- public version 2017-08-22
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About

Nick is a curious, competitive, and determined problem solver.

He has diverse interests, having achieved international success in both science and debating competitions. In all his pursuits, the unifying themes are a passion for exploring data, and a relentless devotion to applying logical and systematic thinking to overcome challenges.

Nick is quick and eager to learn new skills, techniques, instruments, and principles. He keenly utilises technology, and is competent with multiple programming languages.

He is highly organised, and has proven performance in both individual and team contexts.

Skills

Scientific Literacy

Information Technology

Organic Synthesis

Chemical Analysis

Oral and Written Communication

University Results

Aims

Find a career solving complex and rewarding problems, with opportunities to develop skills and knowledge. Work with a diverse and experienced team, aspiring to one day lead investigative research and development.

Key Achievements and Awards

- Nov 2014 BIOMOD | Biomolecular Design Competition Harvard, Massachusetts
Grand Prize - Overall Winner
- Jan 2013 Undergraduate Research Scholarship University of Sydney, Australia
Synthesis of novel sugar derivatives for anti-cancer drug delivery
- Jan 2012 Undergraduate Research Scholarship Macquarie University, Australia
Total Synthesis of Agelidine A
- Dec 2015 Debating University of Sydney Union, Australia
Represented world top ranked debating society internationally

Proven Research and Laboratory Skills

- 2014 Self-assembling Biosensor for Detection of Ebola Virus Nanotechnology cooperativity, DNA-origami, fluorescence, in-silico, PCR & qPCR, SDS-PAGE, single-molecule, synchrotron (SAXS/WAXS), UV-VIS
- 2013 Novel Anti-Cancer Drug Delivery Organic Synthesis
chirality, chromatography, combinatorics, complex, literature, monosaccharides, stereoselectivity, pegulation, TLC, protection, tether
- 2012 Total Synthesis of Agelidine A Organic Synthesis
click chemistry, distillation, isolation, ^1H NMR, ^{13}C NMR, purification
- 2013 Detection of Glycerol in Serum and of THC in Urine Analytical
GCMS, LCMS, instrument calibration, method validation, standards
- 2016-2017 Undergraduate Chemistry Laboratories Organic, Inorganic, and Physical
biodiesel, kinetic, macrocycle, organometallic, photovoltaics, quantum
- 2011-2017 Hazard, Risk, and Safety Mangement Safety
hazard and risk assessment, biological, cryogenic, electrical, mutagenic, MSDS, pictograms (GHS, CLP, CHIP), PPE, radiation, waste disposal

Employment History

- 2013 Anti-Doping Scientist Australian Sports Drug Testing Laboratory
Sample Preparation, Routine Analysis, Administration, Research
- 2011-2017 Private Tutor Sydney, Australia
Mathematics, Physics, Chemistry. students aged 12-18
- Nov 2016 Teach for Australia Deakin University, Australia
Completed 'Initial Intensive', classroom teaching
- 2011-2015 High School Debating Coach Various High schools
Coached several competition-winning teams

Education

- 2011-2017 Bachelor's of Science (Pass) University of Sydney, Australia
Majoring in Chemistry, minor in Physics
- 2011-2016 Bachelor's of Science and Arts (incomplete) University of Sydney, Australia
Partial completion of majors in Archaeology and Digital Cultures
- July 2012 Tohoku Summer Science Program Tohoku University, Japan
Materials Science and Nanotechnology

Hobbies and Interests

- Hobbies: 3D printing, carpentry, chess, cooking, electronics, programming
- Fitness: cycling, distance running, hiking, swimming, weightlifting, yoga
- Likes: bikes, cars, coffee, podcasts, reading, travel, trivia