
Sanjeev S. Seahra

Brief Curriculum Vitae

Department of Mathematics & Statistics
University of New Brunswick
Fredericton, New Brunswick
Canada, E3B 5A3

phone: +1 (506) 458-7323
fax: +1 (506) 453-4705
sanjeev.seahra@gmail.com
sanjeev.seahra.ca

Education

- 1998–2003 • **Doctor of Philosophy in Physics**
Location: Department of Physics, University of Waterloo
- 1994–1998 • **Bachelor of Science in Honours Physics**
Location: Department of Physics, University of Waterloo

Academic Positions and Affiliations

- 2024–2029 • **Dean of Science**
University of New Brunswick, Fredericton, New Brunswick
- 2019–2024 • **Chair of Department of Mathematics & Statistics**
University of New Brunswick, Fredericton, New Brunswick (N.B. one-year leave 2022-23)
- 2018– • **Professor of Applied Mathematics**
University of New Brunswick, Fredericton, New Brunswick
- 2016–2024 • **Director of AARMS**
Atlantic Association for Research in the Mathematical Sciences (AARMS)
- 2012–2018 • **Associate Professor of Applied Mathematics**
Location: University of New Brunswick, Fredericton, New Brunswick
- 2012– • **Cross-appointed Professor of Physics**
Location: University of New Brunswick, Fredericton, New Brunswick
- 2010–2012 • **Assistant Professor of Applied Mathematics**
Location: University of New Brunswick, Fredericton, New Brunswick
- 2011– • **Affiliate Member**
Location: Perimeter Institute for Theoretical Physics, Waterloo, Canada
- 2007–2009 • **Postdoctoral Fellow**
Location: University of New Brunswick, Fredericton, New Brunswick
- 2005–2007 • **PPARC (STFC) Postdoctoral Fellow (UK)**
Location: Institute of Cosmology & Gravitation (ICG), University of Portsmouth, UK
- 2003–2005 • **NSERC Postdoctoral Fellow (Canada)**
Location: Institute of Cosmology & Gravitation (ICG), University of Portsmouth, UK

Selected Grants, Awards, Fellowships and Honours

- 2012, 22 • **UNB Faculty Merit Award**
University of New Brunswick, Canada

Selected Grants, Awards, Fellowships and Honours (continued)

- 2022–24 • **University Research Scholar**
University of New Brunswick, Canada
- 2021–22 • **NSERC Discovery Institute Support Funding**
obtained on behalf of the Atlantic Association for Research in the Mathematical Sciences, Canada
- 2019, 21 • **Innovation Mobilization Program** (×2)
Springboard Atlantic, Canada
- 2021-22 • **Emerging Infectious Disease Modelling Initiative**
National Sciences and Engineering Research Council of Canada (NSERC) (large team grant to AARMS and other mathematical institutes)
- 2021-24 • **AARMS Director’s postdoctoral fellowship**
Atlantic Association for Research in the Mathematical Sciences, Canada and the University of New Brunswick
- 2010-26 • **NSERC Discovery Grant** (×3)
National Science and Engineering Research Council, Canada
- 2020-21 • **New Brunswick 2019 Novel Coronavirus (COVID-19) Rapid Research Funding Opportunity**
New Brunswick Health Research Foundation (NBHRF)
- 2020-21 • **Canadian 2019 Novel Coronavirus (COVID-19) Rapid Research Funding Opportunity**
Canadian Institutes of Health Research (CIHR) (large team grant)
- 2019 • **Regional economic growth through innovation**
Atlantic Canada Opportunities Agency, Canada
- 2019 • **NSERC Engage Grant**
National Science and Engineering Research Council, Canada
- 2018–21 • **NSERC PromoScience Grant** (×2)
obtained on behalf of the AARMS, Canada
- 2015–2017 • **AARMS Collaborative Research Group: Mathematical and physical aspects of black holes**
Atlantic Association for Research in the Mathematical Sciences, Canada (academic administrator and principal organizer for 2015-16; member 2016-17)
- 2014 • **Excellence in Teaching Award**
Faculty of Science, University of New Brunswick, Canada
- 2011-2014 • **NSERC Early Career Researcher Supplement**
National Science and Engineering Research Council, Canada
- 2007,09,11 • **Classical and Quantum Gravity Research Highlight of the Year** (×3)
◇ “Tomimatsu-Sato geometries, holography and quantum gravity”
◇ “Ricci flows, wormholes and critical phenomena”
◇ “A gravitational wave window on extra dimensions”
- 2010 • **Start-up Grant**
University of New Brunswick, Canada
- 2005–2007 • **PPARC Postdoctoral Fellowship (Personal)**
Particle Physics & Astronomy Research Council (now known as the Science and Technology Facilities Council), United Kingdom
- 2004 • **W. B. Pearson Medal for Creative Doctoral Research**
Faculty of Science, University of Waterloo, Canada
- 2003–2005 • **Canada–UK Millennium Research Fellowship**
Royal Society of London, United Kingdom
- 2003–2005 • **NSERC Postdoctoral Fellowship**
National Science and Engineering Research Council, Canada

Selected Grants, Awards, Fellowships and Honours (continued)

- 2003 • **Ontario Graduate Scholarship in Science and Technology**
Government of Ontario, Canada
- 1998–2002 • **NSERC Postgraduate Scholarships (A and B)**
National Science and Engineering Research Council, Canada
- 1998 • **Alumni Gold Medal**
Faculty of Science, University of Waterloo, Canada
- 1998 • **Second place in Lloyd G. Elliot Prize Exam**
Canadian Association of Physicists, Canada
- 1995–1997 • **Sir Isaac Newton Alumni Award**
Department of Physics, University of Waterloo, Canada
- 1994–1997 • **Canada Scholarship**
Government of Canada
- 1994 • **Sir Isaac Newton Entrance Scholarship**
Department of Physics, University of Waterloo, Canada
- 1994 • **Governor General's Bronze Medal**
Government of Canada

Recent popular Science, Outreach and Media Appearances

- 2020-21 • Media mentions and interviews related to COVID-19
 - ◇ [Even without Omicron, NB cases on steep upward trend](#), *CHMA 106.9 FM* (Dec 22, 2021)
 - ◇ [Arrivée du variant Omicron: faut-il privilégier le masque médical?](#), *Radio-Canada, ICI Nouveau-Brunswick* (Nov 30, 2021)
 - ◇ [COVID-19 modelling: the complex science of simple lines](#), *UNB Research Blog* (Oct 15, 2021)
 - ◇ [N.B. COVID-19 roundup: 109 new cases, 63 people in hospital](#), *CBC NB* (Oct 12, 2021)
 - ◇ [COVID-19 hospitalizations could double within a month, new N.B. projections show](#), *CBC NB* (Oct 9, 2021)
 - ◇ [Delta plus, Delta, Lambda variants: Why experts are watching](#), *Telegraph-Journal* (paywall; July 7, 2021)
 - ◇ [Dr. James Watmough and Dr. Sanjeev Seahra join research project tackling COVID-19](#), *University of New Brunswick Annual Report 2020* (March 2021)
 - ◇ [NB math profs join national team to map—and stop—COVID-19](#), *Times and Transcript, Daily Gleaner and Telegraph-Journal* (paywall; April 8, 2020)
- 2019 • Interviewed on *Global TV Halifax Morning* about "[AllSySTEMsGo](#)" [AARMS-Girl Guides event](#) for 500 girls aged 9–17 at Dalhousie and Saint Mary's universities (May 11–12, 2019)
- 2018 • Quoted in *CBC* article "Einstein's gravity theory passes extreme test on zombie star" (July 4, 2018)
- 2018 • Principal academic organizer of the "[AllSySTEMsGo](#)" [AARMS-Girl Guides camp](#) for 500 girls aged 9–17 at UNB Fredericton (May 12–13, 2018); media coverage of the event included
 - ◇ [The Daily Gleaner and The Telegraph-Journal](#) newspapers (May 13, 2018)
 - ◇ [The Journal Pioneer](#) newspaper (May 14, 2018)
 - ◇ [Rogers TV](#) online video segment (May 14, 2018)
- 2017 • Quoted in *Gizmodo* article "Have Gravitational Waves Scarred the Fabric of Spacetime?" (May 22, 2017)
- 2016 • "What's the matter with gravity?" public lecture given at the University of New Brunswick on November 24, 2016
- 2016 • "Einstein's ripples" talk given to students in grades 7–9 attending the Annual UNB–CMS Math Camp (May 15, 2016)
- 2016 • Interviewed about my appointment as the Director of AARMS
 - ◇ in the *Daily Huddle* website huddle.today/unb-researcher-sanjeev-seahra/ (July 8, 2016)
 - ◇ in *The Daily Gleaner* and *The Telegraph-Journal* newspapers (July 9, 2016)
- 2016 • "Einstein's ripples" public lecture given at the University of New Brunswick on February 23, 2016

Recent popular Science, Outreach and Media Appearances (continued)

- 2016
 - Interviewed about the discovery of gravitational waves by LIGO
 - ◊ on the Canadian Broadcasting Corporation's radio/TV programme *Information Morning Fredericton* (February 12, 2016); and
 - ◊ in *The Daily Gleaner* and *The Telegraph-Journal* newspapers (February 12, 2016)
- 2015
 - "100 years of general relativity" public lecture given at the University of New Brunswick on May 6, 2015 (the talk was also featured on the CBC New Brunswick evening news television programme on May 5, 2015)

Industrial and non-academic collaborations

- 2023
 - *Patchell Brook Equity Analytics* (funded by New Brunswick Innovation Research Fund)
- 2022–
 - *Department of Health and Community Services, Government of Newfoundland and Labrador* (funded by a Newfoundland and Labrador research contract)
- 2022
 - *Department of Health and Wellness, Government of Prince Edward Island*
- 2021–22
 - *Department of Health and Social Services, Government of Northwest Territories*
- 2021–
 - *The Black Arcs* (funded by a Department of Defence Ideas grant held by The Black Arcs)
- 2020–
 - *Department of Health, Government of New Brunswick* (funded by a New Brunswick research contract)
- 2019
 - *C-Therm* (funded by NSERC Engage grant)

Other Activities

- 2019–2023
 - **Co-chair**
Bridges 2023 Mathematics and Art Conference local organizing committee
- 2018–2021
 - **Principal co-organizer**
AARMS Industrial Problem Solving Workshops 2018, 2019, 2021