

aerobics at the YMCA, is a multi-instrumentalist, and enjoys dancing and cooking. The CAV award is given annually for fundamental contributions to the field of computer-aided verification. The award carries a cash prize of US\$10,000 shared equally among recipients.

—From a CAV announcement

Williamson Awarded Christopher Heyde Medal



Geordie Williamson

Geordie Williamson of the University of Sydney has been awarded the 2019 Christopher Heyde Medal of the Australian Academy of Science. The citation reads: “Professor Williamson is a world leader in the field of geometric representation theory. Among his many breakthrough contributions are his proof, together with Ben Elias, of Soergel’s conjecture—resulting in a proof of the

Kazhdan–Lusztig positivity conjecture from 1979; his entirely unexpected discovery of counter-examples to the Lusztig and James conjectures; and his new algebraic proof of the Jantzen conjectures.” Williamson received his PhD from Albert-Ludwigs-Universität Freiburg in 2008 under Wolfgang Soergel. He was awarded the Chevalley Prize in Lie Theory of the AMS in 2016. His honors also include the European Mathematical Society Prize (2016), a Clay Research Award (2016), the 2017 New Horizons in Mathematics Prize (with Ben Elias), and the Australian Mathematical Society Medal (2018). He is currently director of the University of Sydney Mathematical Research Institute and will be Distinguished Visiting Professor at the Institute for Advanced Study in 2020–2021. The Heyde Medal recognizes distinguished research in the mathematical sciences by researchers up to ten years after receipt of the PhD who are normally resident in Australia.

—From a University of Sydney announcement

Prizes of the Mathematical Society of Japan

The Mathematical Society of Japan (MSJ) has awarded a number of prizes for the fall of 2019.

Takayoshi Ogawa of Tohoku University was awarded the 2019 Autumn Prize for his outstanding contributions to studies on the critical structure in nonlinear evolution equations. The Spring Prize and the Autumn Prize are



Takayoshi Ogawa

the most prestigious prizes awarded by the MSJ to its members. The Autumn Prize is awarded without age restriction to people who have made exceptional contributions in their fields of research.

The Analysis Prizes were awarded to **Fumio Hiroshima** of Kyushu University for the application of functional integration in mathematical quantum field theory; **Hidetaka**

Sakai of the University of Tokyo for research on Painlevé-type equations; and **Hiroki Sumi** of Kyoto University for studies on semigroups and random dynamics of rational functions of one complex variable.

The Geometry Prizes were awarded to **Kei Irie** of the University of Tokyo for studies on contact, symplectic topology, and string topology and to **Masaki Tsukamoto** of Kyushu University for studies on mean dimension in dynamical systems.

The Takebe Katahiro Prizes were awarded to the following individuals: **Kenta Hayano** of Keio University for studies on smooth mappings on 4-manifolds based on mapping class groups of surfaces; **Tomoyuki Hisamoto** of Nagoya University for studies on the stability and existence of special Kähler metrics on polarized manifolds; **Shinnosuke Okawa** of Osaka University for studies on noncommutative algebraic geometry; and **Keisuke Takasao** of Kyoto University for studies on weak solutions to volume-preserving mean curvature flow.

The Takebe Katahiro Prizes for Encouragement of Young Researchers were awarded to the following individuals: **Kenta Hashizume** of the University of Tokyo for a new approach to the minimal model program; **Masao Oi** of Kyoto University for explicit description and depth-preserving property of the local Langlands correspondence for classical groups; **Yuhei Suzuki** of Nagoya University for studies on operator algebras arising from topological dynamical systems; **Shota Tateyama** of Waseda University and the University of Tokyo for studies on qualitative properties of L^p -viscosity solutions to fully nonlinear partial differential equations; and **Hiroyuki Tsurumi** of Waseda University for work on well- and ill-posedness of the Navier–Stokes equations in Besov spaces.

—From an MSJ announcement

2019 Davidson Fellows

Several high school students whose projects involved the mathematical sciences have been named 2019 Davidson Fellows.