Applications are invited for one or more postdoctoral positions at York University in Toronto. The successful candidate(s) will work with Professor Ray Jayawardhana and his collaborators on observational and analytical studies of extra-solar planets and related topics such as planet formation and sub-stellar objects. Photometric and spectroscopic characterization of extra-solar planets is of particular interest. Group members use data from VLT, Subaru, Gemini, Keck, CFHT, Kepler, and other major observatories, and will also be involved in guaranteed-time observations with the NIRISS instrument on JWST and the SPIRou instrument on CFHT. The successful candidate(s) will also have the opportunity to collaborate with Professor John Moores at York, and with other members of the Technologies for Exo-Planetary Science (TEPS) program, funded by NSERC at $1.65 million, at institutions across Canada and abroad. The position is for two years, with extension to a third year possible, and comes with a competitive salary and funds for research expenses. Start date is flexible, though earlier is preferred. Applicants should send their curriculum vitae, a description of research interests and plans and a list of publications, and should arrange for three letters of recommendation to be sent directly to Marlene Caplan (marlene@yorku.ca). All materials should be submitted electronically. Applications are accepted until the position is filled, and those received before October 16, 2017 will receive full consideration. Early expressions of interest and inquiries are welcome, and should be made to rayjay@yorku.ca.