Rundown

1. Objectives

2. Requirement and application procedure

3. Sharing by previous participants

4. Q & A
Objectives

• enable students to attempt specific research topics that cater to their individual interest and ability

• encourage students taking initiative and playing a more active role in their own learning

• provide a platform for students to integrate theory and practice, and to understand limitations of their current knowledge

• engage students in research of their majored science discipline
## SRF vs ORF

<table>
<thead>
<tr>
<th></th>
<th>SRF</th>
<th>ORF</th>
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<tbody>
<tr>
<td><strong>Location</strong></td>
<td>Within the departments/schools at HKU</td>
<td>Overseas institutes</td>
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<td><strong>Subsidy</strong></td>
<td>A stipend of HK$16,000</td>
<td>A stipend of HK$16,000 plus airfare (on a reimbursement basis and the maximum subsidy is HK$12,000)</td>
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<td>Requirements</td>
<td>SRF</td>
<td>ORF</td>
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<td>1. Complete the research project (duration is at least 2 months) under the supervision of research supervisors (both external and internal supervisors are required for ORF)</td>
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<td>2. Submit a research synopsis of 500-1,000 words on your project, a short passage of programme sharing and a poster in September 2017</td>
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<td>3. Participate in Poster Presentation in September/October 2017</td>
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<td>4. Attend the SRF&amp;ORF Colloquium in September/October 2017; Five to six best poster presenters will give an oral presentation in the SRF&amp;ORF Colloquium</td>
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Eligibility

• Non-final year of BSc or BSc (AC) students of 4-year curriculum
• Recommendation of a prospective supervisor
• To better prepare students for conducting research, students who participated or will participate in ORF/SRF must take SCNC3111 Frontiers of science honours seminar course. Course description can be found at http://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course_code=SCNC3111. Students who do not take the course will not receive the stipend and will not have the fellowship listed in the transcript.
• Given the limited quotas and to allow more students to have this valuable research learning experience, past participants of SRF/ORF Schemes cannot apply for the same fellowship scheme which they had previously participated.

(Exception: Students pre-accepted to the ‘Young Scientist Scheme’ have been guaranteed of a place to participate in SRF in the summer after the completion of their first year of study, and have further opportunities to participate in other undergraduate research schemes (such as another SRF or ORF) in subsequent years subject to satisfactory academic performance.)
1. **Search for your interest area**

   Examples of topics in the past years:
   - Territorial analysis for ratemaking
   - Investigation of serine sensitivity in *Salmonella enterica*
   - Trend prediction of global temperature changed by analyzing satellite data
   - Exotic option pricing under regime-switching model
   - Crystallization of X-ray structural elucidation of a disease-causing small peptide
   - The laser cooling and Bose - Einstein condensation in ultra cold atoms
   - Molecular cloning of claudin-11 gene in *Oryzias melastigma*
Application Procedure

2. Consult the teacher(s) in your interest field about your research plan
   • Through your home departments/schools or teachers
   • Approach the teacher(s) directly
   • Read their research publications

3. Fill in the application form
   http://www.scifac.hku.hk/ug/current/ug-research-exchange-others/research/experience
Application Procedure

4. Submit your application form with a **recommendation letter** from your prospective supervisor and a **research proposal** (not more than 500 words on **ONE** A4 sized paper) to the Science Faculty Office by **February 20, 2017 (Monday)**.
Recommended Contents of Research Proposal

- Title
- Abstract
- Introduction (Background information)
- Research Design
- Significance
- References
Selection Criteria

• Quality of the research proposal
• Recommendation of the prospective supervisor
• Your performance in the interview
• Academic merits
Recognition

• To be recorded in the academic transcript
• Receive a Certificate of Completion
• Awards:
  a) Best poster presenters (5-6)
  b) Best colloquium presenter (1)
About University Research Fellowship Programme (URFP)

• Students who have excellent academic performance (in the 95th percentile of top students in a study programme or attain a CGPA of 3.60 or above) and plan to conduct final year project or directed studies after having a summer research internship can consider to apply for the URFP.

• The URFP is a prestigious programme organized at University level aimed at enhancing students’ learning experience and nurturing the next generation of researchers/scholars.

• Students enrolled in the URFP are required to undertake a research study (final year project or directed studies).

• Summer research internship may form an essential part of such a research study. Students may receive a research internship award of up to HK$40,000 for research internship overseas or up to HK$15,000 in Hong Kong or the Mainland.

• Deadline of application: February 20, 2017 (Monday)

Remarks: Students who apply for URFP need not apply for SRF/ORF. They will be considered for SRF/ORF if they are not selected for URFP.
Experience Sharing by Former Participants

- How to approach and find a supervisor?
- How to prepare the research proposal?
- What were the difficulties in carrying out the research?
- What valuable experiences were gained through the research fellowship?
Mr Au Tsun Fung

SRF Participant

• Project Title:
Does global warming bring in new butterfly species to Hong Kong?

• Supervisor:

  Dr Timothy C Bonebrake

  School of Biological Sciences, HKU
Miss Wong Wing Yan

ORF Participant

• Project Title:
Monte Carlo Event Generation of $ttH \rightarrow ttbb$ in 2-HDM for Heavy Higgs Search at the ATLAS Experiment at the LHC

• External Supervisor:
Dr Junjie Zhu, Department of Physics, University of Michigan

• Internal Supervisor:
Dr Yanjun Tu, Department of Physics, HKU
Thank you

Do you have any questions?